

AMERICAN NURSERYMAN

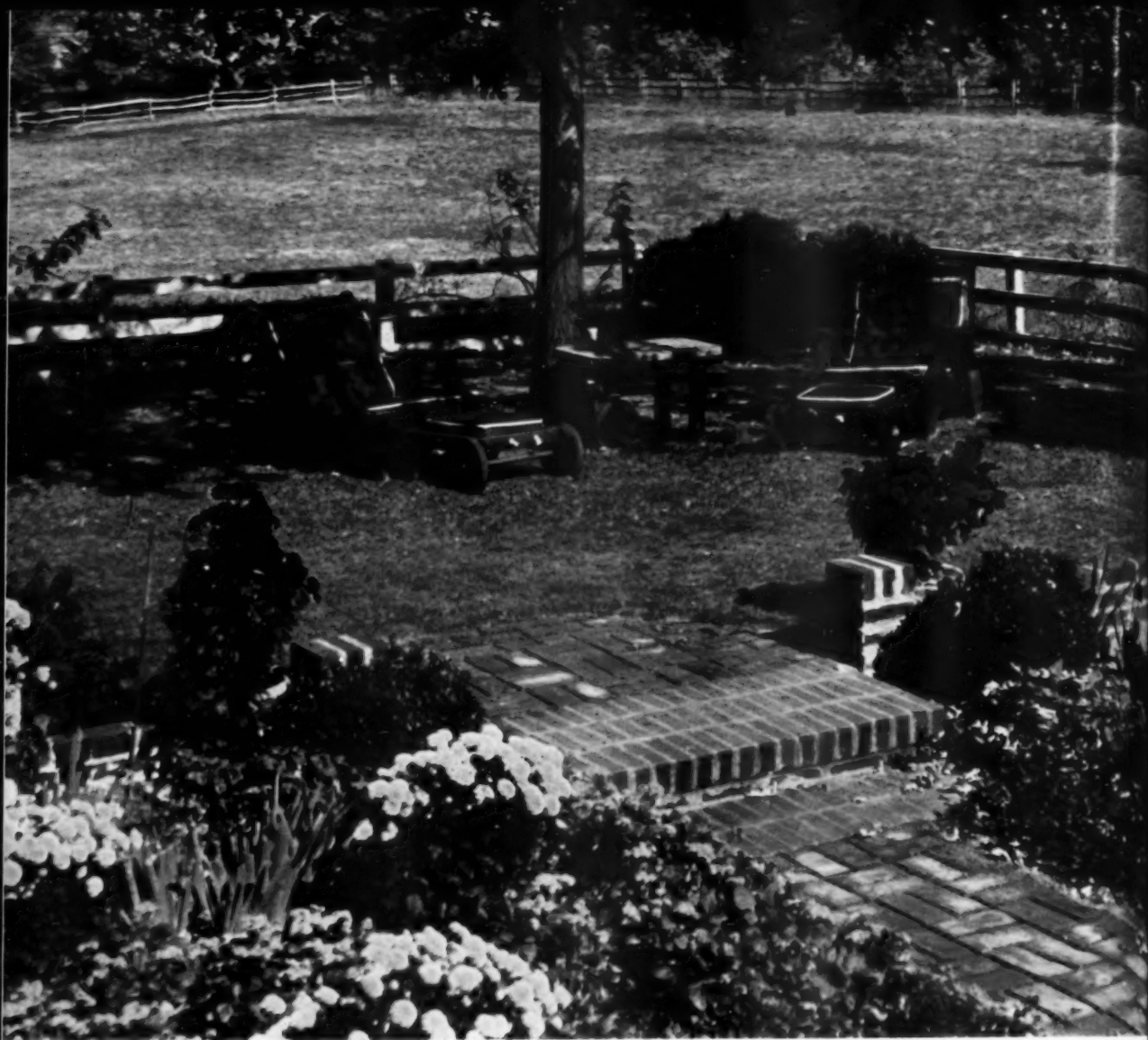
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PHOTOGRAPHED BY GOTTSCHG-SCHLEISNER FOR FLOWER GROWER, THE HOME GARDEN MAGAZINE

DOUBLY ATTRACTIVE

An unusually beautiful garden is attractive to everybody. But to the nurseryman it's attractive in two ways. He knows that it attracts the interest of friends and neighbors. Thus one good nursery customer attracts other nursery customers.

Nurserymen also know that these customers who attract others are likely to be readers of *Flower Grower*, *The Home Garden Magazine*. (There are 400,000 *Flower Grower* families—more than 235 for every member of the American Association of Nurserymen.) *Flower Grower* has, therefore, played a major role over the past 45 years in building the nursery industry.

This fall, *Flower Grower's* September, October and November issues will present a colorful fall gardening festival. December is

devoted to nursery catalogs. And then in January the spectacular "new plants" issue will present the most complete array of photographs and descriptive material anywhere on what's new for the 1960 garden. All these issues of *Flower Grower*—and all the others—will reach the nurserymen's 400,000 best customers, and will therefore *attract* many others.

John R. Whiting, Editor and Publisher, *Flower Grower*, *The Home Garden Magazine*, 2049 Grand Central Terminal, New York 17, New York.

(Just for fun, I will send a check for a new hat, any brand you choose, to the three retail nurserymen who write me the best letters about how a good customer brought in others.)

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AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. CX, NO. 2

JULY 15, 1959

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Forms for the August 1 issue will close Friday, July 10.

Forms for the August 15 Convention Report Issue will close July 24.

Mail copy to arrive at Chicago by these dates—no later!

Success Is Measured in Terms of Profit!
and
Profit Depends on:

QUALITY

Begins with Mount Arbor's certified quality, northern California grown roses. It continues through nearly 4000 acres of hardy, northern-grown stock. Produced by men brought up in the nursery business—men with experience.

SELECTION

—One of the largest and most complete selections of top-quality stock to be found anywhere. Our wholesale list contains over 3900 varieties and sizes from which to choose. Stock grown in diversified areas particularly suited for vigorous and healthy growth.

SERVICE

—Mount Arbor is equipped with the most modern cold storage facilities which assure shipment of dormant stock throughout selling season. Excellent truck and rail terminals to give you prompt deliveries.

*Give Your Customers the Best the
Industry Has to Offer!*

Our complete summer wholesale trade list will be mailed early in August. It will offer nearly 200 varieties of new and time-tested varieties of roses. A complete assortment of fruit trees, small fruits, fruit tree seedlings, shade and ornamental trees, shrubs, hedging, vines, evergreens (from lining-out stock to balled and burlapped specimens), perennials and bulbs.



One of America's Foremost Nurseries

Mount Arbor Nurseries

ESTABLISHED 1875

• SHENANDOAH IOWA •

AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

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Editorial

TRIPLE ATTRACTION

For members of the American Association of Nurserymen attending its 84th convention, the city of Philadelphia will have a triple attraction. In the mind of every American citizen it has a revered place not only as the City of Brotherly Love, from the principle of its religious-tolerant founder, William Penn, but also as the cradle of independence, where the famous declaration was signed in 1776. From the historical point of view the city presents many famous places, from the days of its founding, through the colonial period and during the war of independence, the rise of the federal government and subsequent eras in the nation's progress.

While the historical sites are so numerous that visitors will wish to refer to a guide book to find mention of them all, emphasis may also be placed upon the outstanding places of horticultural interest. These are varied in character and some of them unique of their kind. Any nurseryman who is not familiar with these horticultural features of Philadelphia and its environs will find them described on another page of this issue, with information how they may be visited. The extent of this convention attraction exceeds that of the usual meeting place, and trade visitors will wish to make the most of the opportunity.

The third of the triple attractions of the A. A. N. convention city this month is, of course, the program of the meeting itself. The schedule of sessions enumerates the events prepared for the information, edification and entertainment of the visitors.

The full-day educational program on Tuesday, July 21, including garden center topics in the morning and discussion of landscape subjects in the afternoon, will provide convention goers with the opportunity of attending both sessions.

Hence, the expectation that a full

week or more is awaiting those not familiar with the Pennsylvania metropolis, rich with a varied fare of stimulating sights and experiences, may attract a record throng to the midsummer meeting.

RECORD ISSUE

This issue of the American Nurseryman, the 1959 special A. A. N. convention number, has set an all-time high for number of pages and volume of advertising. Including 226 pages, the magazine exceeds last year's record-breaking issue by 18 pages. Thus the American Nurseryman continues to reflect the increased activity in the nursery industry which has been stimulated by the homeowners' added interest in gardening, the continued high rate of housing starts and the public's awareness, in general, of landscaping.

The confidence that suppliers and nurserymen have shown in this magazine has helped us put out this true buyers' guide of which the industry can be proud.

So, a warm salute to the A. A. N. and its 84th annual convention at Philadelphia. It is hoped that this record-breaking issue foretells a record-breaking convention for the national association.

BUSINESS ADVANCE

After a difficult spring, both in the growing fields and in the salesyards, because of the damaging winter weather and the unfavorable spring, nurserymen scan the coming months in regard to general business conditions and the economic trend, in order to make plans for the season ahead. The recession in some business lines in 1958 and the character of the recovery this year have caused reappraisals of the outlook from time to time by businessmen and economists. While there are still a few question marks in the picture, the strength of important factors leads to a prevalent opinion that the business advance is moving at an impressive pace.

Employment, which was cause for uncertainty and even concern not long since, has been rising at a rate higher than seasonal, and if it continues at the pace it set in earlier spring months, it is expected in July to equal the high mark set in the summer of 1957.

According to national figures, total business sales and total industrial

production have passed the previous record highs set earlier in the year. Retail sales continued at a vigorous pace in the spring, and a seasonally adjusted rate set a new high, 10 per cent above a year earlier and eight per cent above the same period in 1957.

Prime factors in the spring increase in sales, it is reported, were the public's willingness to incur debt and a six per cent increase in the level of personal income.

Automobile production, regarded as a measure of the country's prosperity, is expected to reach by mid-year a figure 45 per cent higher than a year ago. Other straws indicating the direction in which business winds blow are also favorable.

As home building resumes a record, or near-record, rate this year and gardening as a pastime or hobby of the American public continues to attract more and more persons, the general business climate seems propitious for nurserymen, who will hope for more favorable weather ahead in order to repair last winter's ravages, to replace lost stock and to provide material for record sales next autumn and in the following spring.

SUPERVISION

The inadequacy of suitable help in most localities this year makes supervision on the part of a landscape nursery firm or maintenance organization more important than usual. Even where enough hands can be obtained, the lack of experience makes competent direction a necessity. That is the reason most firms use their experienced men as supervisors during the busy season, so that work will be done in accordance with the specifications of the order and the satisfaction of the customer.

The employer may feel that he is more than fully occupied with interviewing customers to learn their wishes and in laying out the work, and so cannot spend too much time in its personal direction or in following up with supervision or inspection. But it pays in the quality of work done and in the satisfaction of customers. Otherwise, jobs that are lost, the adjustment of customers' complaints, supplementary trips to remedy oversights and possible injury to good will, all may be costly. Circumstances and the character of the organization dictate the method whereby supervision can be insured, but it is essential.

Long state park flower sheds of acclaim

Ho

Philadelphians reminisce for tomorrow's attention of Nurserymen except for the redevel area and pro- tiveness niques i restoring the gene first retu convent 1916.

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Philadelphia Welcomes A. A. N.

Long-planted, mature dogwood trees in historic Valley Forge state park, near Philadelphia, make a spectacular and lasting flower show covering 10 square miles in May, visited by hundreds of thousands of persons from all over the country, who acclaim the event the top rank among horticultural attractions.

Host City for 84th Annual Convention

Philadelphia—a city of charm, reminiscence and dynamic planning for tomorrow—will present to members attending the 84th annual convention of the American Association of Nurserymen July 18 to 22 an exceptionally interesting background for the meeting program printed on another page of this issue. The city's redevelopment plans in the central area are now in an advanced stage and provide examples of the effectiveness of various landscaping techniques in creating, maintaining and restoring the beauty of property and the general environment. This is the first return to the city for a national convention by the A. A. N. since 1916.

Founded by William Penn about three centuries ago, Philadelphia needs no introduction as the "Cradle of Liberty." In the heart of old Philadelphia is the greatest concentration of physical reminders of the American Revolution and the establishment of the United States as a free nation. Here was the nation's capitol from 1790 to 1800. Familiar to everyone is the appearance of the vener-

able buildings on Independence square. But new to many, no doubt, will be the advances made in two major restoration projects, the City-State mall, extending northward from Independence square, as pictured in an accompanying illustration, and the National Historical park, extending eastward from the square. Points of specific horticultural interest in and about the city are described in another article in this issue.

Industrial Expansion, Too

The eyes of business and industry are also on Philadelphia today, focused on Penn Center, a renewal of the midtown district, considered, along with the restoration of the Independence Hall area, the key to the city's future. The \$3 billion redevelopment being carried on, to extend over 15 city blocks, is outstanding among many urban rebuilding plans over the nation.

Unwilling to concede third place in size of population to Los Angeles, Calif., Philadelphia sets forth the fact that it has the largest concen-

tration of population in the central city area after New York and Chicago, with another million in its commuting area. Boosted now is the slogan — "Philadelphia—All-America City."

This Pennsylvania city in the heart of the rich Delaware valley also lays claim to being the largest fresh-water port in the world. In addition to the steady stream of tankers and freighters that shuttle in and out of the river port, ocean-going liners are now making Philadelphia a regular stop. Besides the commercial shipyards, there is a huge naval base, where a large part of the mothball fleet is docked and navy units can be visited.

"Staid old Philadelphia" is today a hub of industrial activity, where more than 3,000,000 persons live and work and where millions of Americans and visitors from foreign lands go annually to enjoy a holiday or meet in serious conventions in this environment of historic charm and modern facilities.

Within the city's boundaries are located over 500,000 homes; beautiful



parks, rivers and streams; old and top-ranking educational institutions; every type of recreation and sporting facility; unsurpassed points of historic interest; abounding industry and enterprises, and, for convenience, modern hotels, world-famous eating places, new superhighways, a multimillion-dollar airport and a well-integrated transportation system.

Its industrial strength is evidenced by miles of diversified manufacturing establishments, acres of oil refineries, steel mills and foundries, electronic facilities, heavy machinery production factories and many other fabricating enterprises. And conversation may bring out the fact that ice cream was invented in Philadelphia, which still manufactures the greatest volume of the commodity.

Between Two Rivers

Somewhat like Manhattan, most of Philadelphia lies between two rivers, the Schuylkill (pronounced Skoo-kill) and the Delaware. Beyond the Delaware to the east is New Jersey; beyond the Schuylkill is West Philadelphia and the Main Line, so called because the estates and settlements there straddle the main line of the Pennsylvania railroad to Pittsburgh. The Market street subway extends into West Philadelphia. New bridges cross both the Delaware and the Schuylkill, and a modern expressway borders the west bank of the Schuylkill for many miles.

William Penn's original "Greene Countrie Towne" laid out by Thomas Holme in 1682 to make it America's first planned city, was a small parallelogram occupying about two square miles, bisected by two wide streets, Broad and Market, with City Hall at their intersection and

with a park at each corner of the rectangle. Three of these parks remain today: Rittenhouse square, Washington square and Franklin square. Logan square, the fourth, is now Logan circle, along the Benjamin Franklin parkway, a mile-long tree-lined avenue running northwest to the Art Museum, flanked by impressive buildings.

Center city, the main business area, has a rigid pattern as laid out by Penn. The principal east-west streets have names mostly of trees. The principal north-south streets have numbers, all save one, Broad street, which by rights should be 14th street.

Old Philadelphia

The colonial section of Philadelphia is like a city within a city. The streets and landmarks of this area are on the eastern side of the city, largely east of Sixth avenue, near the Delaware river. Urban blight had seriously attacked even this historic region, transforming the neighborhood into a jungle of fire-trap buildings, parking lots and run-down commercial establishments. To revive the area and above all to preserve the irreplaceable shrines of the past, in 1942 a group of civic leaders formed the Independence Hall Association.

Through tireless effort this group stimulated the city, state and federal governments into action, resulting in two major projects: The Independence Mall and the Independence National Park. The Mall project is sponsored jointly by the city and state, while the park project is under the direction of the national park service of the United States Department of the Interior. Together they form one of the most

important historical projects in the United States, and to complete the program in the next few years will cost in excess of \$20,000,000.

Restoration of Buildings

These projects involve the demolition of all nonhistoric buildings in an area of approximately seven city blocks and the landscaping of the resulting space. In the federal area, the national park service will substantially restore all historic buildings and features to their appearance in the period 1774 to 1800.

The city-state mall, extending northward from Independence Hall for three blocks, is half completed.

Extending eastward from Independence square lies the park project, embracing about four city blocks, where the work is well under way. The principal area includes the Independence Hall group of buildings, transferred to the national park service by the city in 1951, under a co-operative agreement, for administration, restoration and interpretation. The Assembly room of Independence Hall has been partially restored and substantially refurnished to appear much as it did in historic times. More than 1,000,000 visitors come to the area annually, and much planning of facilities to accommodate this number has been done.

Penn Center

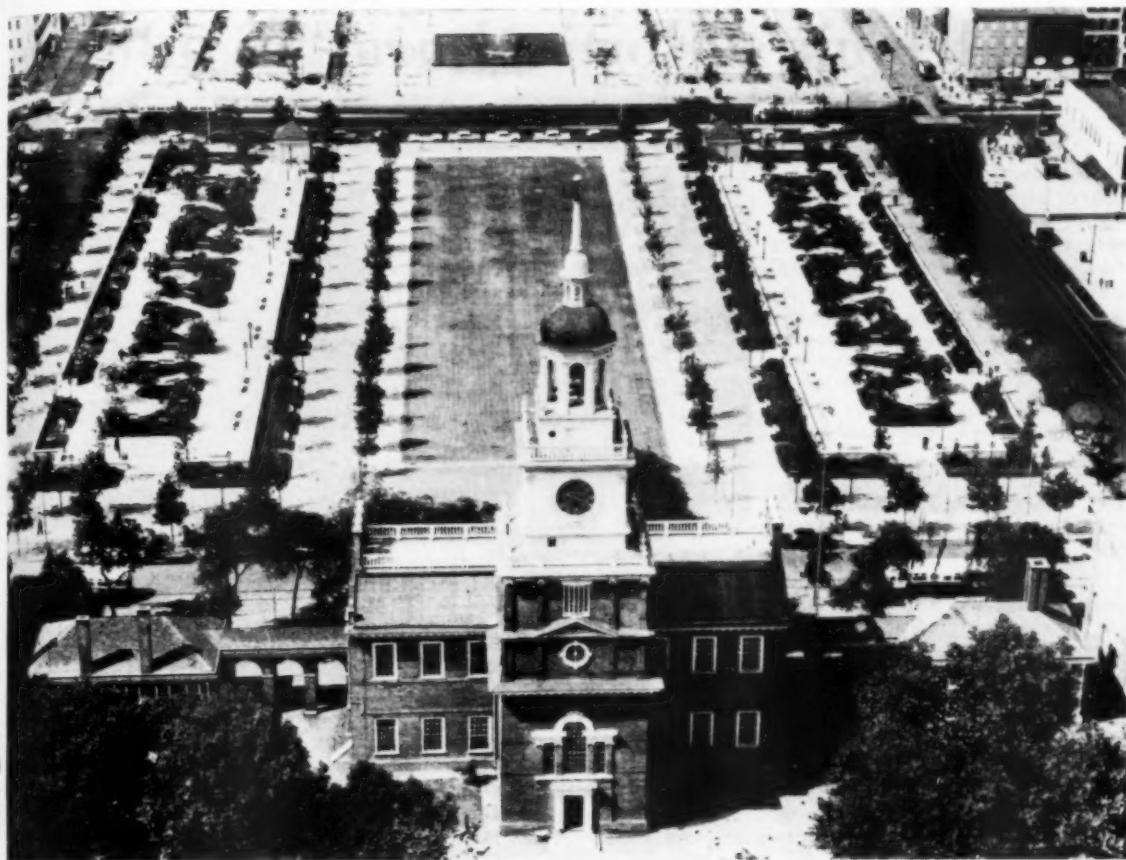
Bold and visionary also is the city's 20th century renaissance in the midtown area now known as Penn Center. The result of a well-formulated plan, it was executed by the best talent available and supervised by Philadelphia's vigorous city planning commission.

Until April 27, 1952, when the last train ran from Broad street sta-



Philadelphia's Museum of Art, at the West End of the Benjamin Franklin Parkway, Houses Priceless Collections

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Modern Independence Mall, Facing Historic Independence Hall, Philadelphia, Is at Half-Way Point in Completion

tion, the Penn center area was dominated by a red-stone station building and the Chinese wall which carried the Pennsylvania railroad tracks to the banks of the Schuylkill river and beyond. For two generations the area had become an increasing eyesore to civic-minded Philadelphians. When railroad officials decided to raze the old station and use underground trackage, the city planning commission worked closely with the railroad group to plan a unified mid-city development.

The ribbon of cleared land stretched from City Hall, the radial hub of Philadelphia city life, west to the Schuylkill river. A wide boulevard, reminiscent of broad European thoroughfares, now leads to the river. And bordering this expanse of Pennsylvania boulevard and equally important Market street is the new city, facing Penn Center, Philadelphia's answer to New York's Radio city.

Besides several modern glass and steel office buildings the plaza contains the Transportation Center, a block square. This structure houses the center-city offices of the Pennsylvania railroad and the new Grey-

hound bus line terminal. Underground ramps carry the buses from the city streets to the unloading zones below. A 1,000-car garage, restaurant and waiting room facilities and an 18-story office building are part of Transportation Center.

Hotel Adds to Square

The A. A. N. convention headquarters, the \$15,000,000 Sheraton hotel, faces the terminal. Containing 1,000 rooms, this new 21-story air-conditioned hostelry houses the city's newest ballroom and banqueting and dining facilities.

Between the buildings already erected, the promenades are tree dotted. Specimens of contemporary sculpture are being added to the open area, where there is a large sunken ice skating rink. An unusual building is being planned for a visitors' bureau.

A concourse below the surface of the street is designed to accommodate 30,000 to 50,000 persons a day and provides an arcade with shops, restaurants and walking area. A circular underground ramp speeds trucks to strategically located unloading docks. The railroad's subur-

ban station, the Sheraton hotel and Transportation Center are all connected with the concourse and other buildings in Penn Center proper.

Facts and Places

In its development as one of the nation's largest cities, Philadelphia has been linked with progressive moves in varied lines of interest. In the educational field, its University of Pennsylvania is said to be the oldest university in the country, being founded in 1740. Temple University in the city is also widely known. And with six medical schools, the city claims lead as a medical center.

The Philadelphia Museum of Art, at one end of Benjamin Franklin parkway, is one of the great art museums of the world, containing displays of paintings, sculpture and antiques. Also meeting art interest are the Pennsylvania Academy of the Fine Arts and the Rodin Museum, the latter being surrounded by its own garden and housing the largest collection of originals and recasts of Rodin's sculpture outside France.

The Philadelphia orchestra is a pre-eminent musical group that has

[Continued on page 171]

Philadelphia's Horticultural Highlights

By Carl W. Fenninger

The Philadelphia area abounds in points of great horticultural interest, some of which are tied closely with the historical background of the city. Besides the new Independence Mall plantings, the scenic beauty spots in Fairmount park, with its Wissahickon creek, will amply reward a visit. This is said to be the largest natural park within a city's limits and is declared to be the site of the first pink-flowering dogwood sport. Nearby Valley Forge state park has notable plantings of dogwood trees, which are mentioned in more detail in the general story about Philadelphia highlights.

The following paragraphs contain descriptions of the best known gardens and arboretums accessible to Philadelphia visitors, while on the opposite page are given data on the transportation available to reach these places.

Barnes Arboretum

The Arboretum of the Barnes Foundation is noted for its fine collection of plants and for the educational classes held there. The woody plants are intended to supplement the educational activities of the foundation by illustrating plant characters, such as form, texture, color, seasonal changes and floral



Avenue of swamp white oaks leading up to Parrish Hall on Swarthmore College campus has ground cover of English ivy and pachysandra, interplanted with bulbs.

display, as the size limitations of the foundation property suggested the idea of a collection pointed to aesthetic values as well as to the botanical and horticultural interests.

The arboretum contains many rare and mature plants not usually hardy in this region, e. g., *Magnolia grandiflora*, *Nandina domestica*, *Aucuba japonica*, *Lagerstroemia indica*, *Poncirus trifoliata* and *Davidia involucrata*. In addition there are a collection of 250 species and varie-

ties of lilacs and a representative series of berberis, cotoneaster, viburnum, lonicera, magnolia, cornus and rhododendron. A rose garden contains a wide range of cultivated varieties, including over 200 hybrid teas, 30 hybrid perpetuals, 75 polyanthas and floribundas and throughout the grounds, 75 climbers. The gymnosperms are represented by notable specimens of *Cedrus libani*, *Libocedrus decurrens*, *Cunninghamia lanceolata* and a



Water Garden, with Illuminated Waterfalls and Fountains, Fronting the Main Conservatory at Longwood Gardens

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ARBORETUMS AND BOTANICAL GARDENS NEAR PHILADELPHIA

Location and Transportation

Barnes Arboretum

300 Latches lane, Merion, Pa.
Open upon application only.

Transportation: Private car or Pennsylvania railroad to Merion station and taxi.

Conducted by the Barnes Foundation. Contains over 2,500 species of woody plants, a collection of perennials, herbaceous and tree peonies and a splendid collection of ferns.

Bartram's Gardens

Entrance, 54th street and Eastwick avenue.

Open to public without charge.

Transportation: By private car, bus or trolley line; subway-surface car No. 36 to 54th street and Elmwood avenue, and short walk. Approximately six miles from center of city.

Bowmans Hill Preserve

Washington Crossing park, two and one-half miles south of New Hope, Bucks county, Pennsylvania.

Transportation: By private car.

Open to public.

Director, David Benner. Information—telephone Hyatt 3-5537.

About 100 acres of land devoted to gathering within the area the flowers, trees, shrubs, ferns and other plants indigenous to Pennsylvania.

Longwood Gardens

Kennett Square, Pa.

Open to the public without charge.

Director, R. J. Siebert.

Transportation: About 30 miles from center city, the gardens may be reached by Trailways bus to Kennett Square and taxi. Private cars should follow U. S. Route 1 toward Baltimore to the point where Route 52 bears right (northerly) to West Chester. This junction, "The Anvil," has a traffic light. Continue straight ahead 0.7 mile, following signs to the Longwood Gardens parking area.

Buses will leave the Sheraton hotel for the N. L. N. A. landscape tour to Longwood Gardens July 18. There will also be a tour of the gardens, with a special fountain display, as part of the women's program July 21.

Morris Arboretum

9414 Meadowbrook lane, Chestnut Hill, Philadelphia.

Open to the public without charge.

Director, Dr. John M. Fogg, Jr. Telephone CHestnut Hill 7-5232.

Transportation: About 15 miles from center city. Arboretum may be reached

Morris Arboretum—Continued

by either Pennsylvania or Reading railroads to Chestnut Hill stations and a short taxi ride. Private cars may go on Benjamin Franklin parkway, River drive, Wissahickon drive or Lincoln drive to Allen lane. Turn right to Germantown avenue, left on Germantown avenue to Arboretum at Hillcrest avenue. The entrance is on Meadowbrook lane, east of Germantown and Hillcrest avenues. Philadelphia Transportation Co., Route 23 on 11th street to Germantown and Hillcrest avenues, the upper portion of the trip being made by connecting bus.

Scott Horticultural Foundation

Swarthmore College, Swarthmore, Pa.
Open to the public.

Director: Dr. John C. Wister. Information: KINGSWOOD 3-1856.

Transportation: Pennsylvania railroad to Swarthmore station, which is at the college grounds.

Splendid collections of woody plants, tree peonies, day lilies and roses.

Tyler Painter Arboretum

Forge and Painter roads, Lima, Delaware county, Pennsylvania.

Open to public without charge.

Information available. Malcolm J. Woods, assistant secretary; telephone: Lowell 6-5431.

Transportation: Approximately 20 miles from center city. By private car, follow Route 1 through Media to Route 352, turning right to Forge road and right on Forge road to arboretum. There is a historical marker at Route 352 and Forge road. Pennsylvania railroad trains go to Media, Pa., from which taxi service can be used.

Noted for its 657 acres of woodlands, meadows and unusual trees.

University Botanic Garden

The University of Pennsylvania Botanic Garden is on the campus, 34th and Spruce streets. Public transportation, Route 42, Walnut street, goes directly to the university. The garden is on Hamilton walk, open to the public from 9 a. m. to 4 p. m., except Saturdays, Sundays and holidays.

Winterthur

Winterthur, Del. Entrance from Route 52 by the lodge and exit on Route 100.

The Winterthur plant collection and museum are made available by Henry F. DuPont. Transportation is by private car to entrance.



Cedar of Lebanon, one of many unusual trees at the Tyler Arboretum.

wide variety of picea, abies, pinus and taxus.

Bartram's Gardens

The first botanical garden in America was Bartram's Gardens started about 1728 by John Bartram (1699-1777). He was characterized by Linnaeus as the greatest natural botanist in the world. His travels through the eastern and southeastern United States resulted in bringing to Philadelphia many most interesting and beautiful plants. His collecting was well known and highly regarded abroad, and he sent many important things to his friends, particularly Peter Collinson, in England.

While most of the plants have since been lost, the house that Bartram built with his own hands stands as restored by the Fairmount park commission in 1925. Perhaps the best-known plant which he found and brought to Philadelphia was the Franklin tree — *Franklinia alata-maha* — which he collected in Georgia in 1770 and named for his friend, Benjamin Franklin. No plants have been found since 1790, and all that we now have are the result of propagating those that Bartram collected. It is a beautiful small tree having white flowers coming into bloom in August. Most arboreturns have franklinia.

Bowmans Hill Preserve

Under the direction of the Washington Crossing park commission, there have been brought together in Bowmans Hill state wild flower preserve some 600 flowering plants, 100 trees, 81 ferns and 80 shrubs, and many other plants may be seen here from 12 nature trails. Particularly

[Continued on page 178]



Swan Pond, One of the Beautiful Features To Be Seen at the Morris Arboretum

Pennsylvania Group Sparks Trade Growth

By Wilbur I. Nisley

In 1904, about 20 prominent nurserymen in Pennsylvania met in the Federal Court room at Lancaster, Pa., and organized the Pennsylvania Nurserymen's Association. Necessity, as is often the case, brought about the organization. San Jose scale had become a serious threat to the growing of nursery stock, and ways and means had to be devised to combat this pest.

The matter of controlling the San Jose scale was taken up at that time with the state entomologist of the department of agriculture, and it was the beginning of many years of co-operation between the P. N. A. and the state departments of agriculture, forestry and others. The minutes of the earlier years' meetings record the presence of the state entomologist, for serious insects and diseases were on the increase. The Japanese beetle is still about, but not so seriously as 35 years ago.

There were 33 charter member

OFFICERS AND EXECUTIVE COMMITTEE

President:
Raymond J. Hively,
Shiloh Nurseries, Inc., York.

Vice-President:
Herbert Hochstetter,
Hochstetter's Nursery, Verona.

2nd Vice-President:
Walter W. Pitzonka,
Pitzonka's Pansy Farm & Nursery,
Bristol.

Secretary-Treasurer:
Wilbur I. Nisley,
Walter, Nisley & Walter, Inc., Harrisburg.

Executive Committee:
Eastern Region—
C. J. Albrecht, Jr., John Albrecht Nurseries, Narberth.
John F. Styer, Jr., Styer's Nurseries, Concordville.
Thomas M. Yerkes, Conard-Pyle Co., West Grove.
Central Region—
John Seyler, Farr Nursery Co., Weiser Park.
Fred J. Mummert, Colonial Nursery, Inc., Harrisburg.
Kenneth G. Stein, Enterprise Nurseries, Wrightsville.
Western Region—
John M. Eisler, Eisler Nurseries, Butler.
Dominic Palombo, Jr., South Hills Nursery, Pittsburgh.
W. A. Morten, Jr., Coraopolis.

Member at Large:
Stanley M. Leighton, Whitmarsh Nursery, Plymouth Meeting.

firms, and now, after 54 years, nine firms are still members, and of the 34 past presidents, listed on this page, 21 are still active. The following statistical comparisons between the first year and the present are interesting:

	1904	1959
Membership . . .	22 firms	362
Dues, annual . .	\$3	\$25 to \$75
Meetings	1 per year	2 state and 20 regional
Balance	\$69.91	\$8,681.29

Association Objectives

Although the objects of the association are not stated in the minutes of the first years, for a long time they have been as follows:

1. To elevate the standard of the nursery and landscape business.
2. To increase the efficiency of the nursery and landscape business.
3. To inspire higher ethical standards.
4. To stress the obligation of complete service.
5. To cooperate with fellow nurserymen for the benefits of each and all.
6. To sponsor close association with the American Association of Nurserymen and maintain a Pennsylvania chapter of the A. A. N.

Other projects of the P. N. A. have been to obtain better nursery inspection, better handling of seedlings distributed by the state, improved courses in horticulture at Pennsylvania State University and lower rates for workmen's compensation insurance. At one time the rate of compensation insurance for nurserymen in Pennsylvania was \$4.95 per \$100. A special committee headed by J. H. Humphreys investigated and learned that nurserymen were classed with general contractors. The compensation bureau at Philadelphia informed the committee that nurserymen could be placed in a class of their own if the number of employees and payroll size were large enough. A questionnaire sent to P. N. A. members proved that they could have their own classification, which resulted then in a rate of 95 cents per 100 and a present one of \$1.05, a great saving from the former rate.

Even in the early years, many of

P. N. A. PAST PRESIDENTS

William H. Moon, Morrisville, 1904-07.
Thomas B. Meehan, Dresher, 1908-09.
Samuel Moon, Morrisville, 1910.
Abner Hoopes, West Chester, 1911-12.
Wilmer W. Hoopes, West Chester, 1913-14.
W. W. Harper, Philadelphia, 1915-16.
B. F. Farr, Weiser Park, 1917.
Adolph Muller, Norristown, 1918.
Robert Pyle, West Grove, 1919.
Albert F. Meehan, Dresher, 1920.
B. F. Barr, Lancaster, 1921-22.
Jacob W. Root, Manheim, 1923.
John Howes Humphreys, Philadelphia, 1924-25.
William H. Doyle, Berwyn, 1926-27.
A. E. Wohler, Narberth, 1928-29.
Lester Needham, Weiser Park, 1930-31.
Russell Harmon, Stroudsburg, 1932-33.
L. Strassburger, Flourtown, 1934-35.
Conrad J. Albrecht, Narberth, 1936-37.
Harold Seyler, Weiser Park, 1938-39.
J. Franklin Styer, Concordville, 1940-41.
William S. Carver, Bethlehem, 1942-43.
Louis E. Wissenbach, Pittsburgh, 1944-45.
Wilbur I. Nisley, Harrisburg, 1946-47.
William M. Long, Southampton, 1948-49.
Charles M. Boardman, Weiser Park, 1950.
Owen B. Schmidt, Narberth, 1951.
Eugene Muller, Norristown, 1952.
Lewis E. Barr, Lancaster, 1953.
A. F. W. Vick, Jr., Gladwyn, 1954.
Jesse R. S. Flory, Stroudsburg, 1955.
Arthur B. Copenhaver, Mechanicsburg, 1956.
Homer A. Thornton, Conneaut Lake, 1957.
Stanley M. Leighton, Plymouth Meeting, 1958.

the P. N. A. members were also members of the American Association of Nurserymen. The state association worked continuously with the national group to obtain better mail rates and laws and railroad shipping schedules, to have nursery stock classed as perishable goods and to handle many quarantine problems. The present organization is faced with additional problems, such as wage-hours laws, social security, sales tax, highway regulations, public relations, plant research, etc., which make the P. N. A. vital to the nursery industry.

Besides supporting chapter 8 of region 1 of the A. A. N., the Pennsylvania Nurserymen's Association holds membership in Eastern Nurserymen's Association, Inc.; Pennsylvania horticultural council; Amer-

NURSERYMEN OF THE YEAR

1952 Albert J. Meehan, Thomas B. Meehan Co., Inc., Dresher.
1953 Joseph B. Gable, Stewartstown.
1954 J. Franklin Styer, Styer's Nurseries, Concordville.
1955 John M. Eisler, Eisler Nurseries, Butler.
1956 Frank S. LaBar, LaBars' Rhododendron Nurseries, Stroudsburg.
1957 Louis E. Wissenbach, Squirrel Hill Nursery, Pittsburgh.
1958 Harold G. Seyler, Farr Nursery Co., Womelsdorf.

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The Nursery Industry in Pennsylvania

By A. O. Rasmussen

Fifty-six years ago, on January 19, 1903, the late Hon. N. B. Critchfield, Pennsylvania state secretary of agriculture in the administration of Governor Samuel W. Pennypacker, called a meeting of nurserymen to gather at the courthouse at Lancaster to discuss the possibilities of developing an organization of Pennsylvania nurserymen.

One year later, January 21, 1904, the same group of nurserymen met at Lancaster and formed a trade association. The following officers were elected: W. H. Moon, Morrisville, president; Thomas B. Meehan, Dreshertown, vice-president; Thomas Rakestraw, Kennett Square, treasurer, and Earl Peters, Mount Holly Springs, secretary.

Early Nurseries

In 1904, three of the largest nurseries were located in southeastern Pennsylvania. They were Hoopes Bros. & Thomas, West Chester, with 600 acres; W. W. Harper, Philadelphia (Chestnut Hill), with 300 acres, and Thomas Meehan & Sons, Dreshertown, with 200 acres. At the start of the new nursery association there were 169 nurserymen having 2,719.5 acres of nursery stock in 37 counties.

The next year, these figures increased to 178 nurserymen in 38 counties growing a total of 2,898.75 acres of nursery stock. In 16 counties, there were 30 dealers licensed to sell nursery stock.

In 1917, the Pennsylvania department of agriculture under the late Hon. Charles E. Patton, secretary of agriculture, listed 528 licensed nurseries in Pennsylvania, growing 7,700 acres of quality nursery stock. In addition, there were 96 dealers of nursery stock.

30 Years' Growth

About 30 years after the founding of the nurserymen's organization, in 1935, there were 671 licensed nurserymen in Pennsylvania. In 1957-1958, the nursery industry in Pennsylvania had grown to an acreage of 14,426.73 acres. There were 2,062 nurserymen, 501 dealers and 134 collectors licensed to operate in the state.

According to acreage figures, the 10 Pennsylvania counties that lead in the production of nursery stock are Montgomery, with 2,105.365; Indiana, 976.025; Erie, 974.60; Bucks, 935.935; Butler, 916.60; Allegheny, 736.01; Chester, 671.23; Schuylkill,

581.20; Berks, 540.02, and Delaware, 509.33.

The second 10 counties according to acreage are Lancaster, 433.893; Westmoreland, 370.68; York, 369.33; Lawrence, 330.79; Philadelphia, 299.35; Clearfield, 277.10; Crawford, 260.40; Dauphin, 239.445; Armstrong, 198.36, and Centre, 185.47.

From these figures it can be seen that over 29 per cent of the nurseries are located within a 60-mile radius of the metropolitan Philadelphia area. Concentrations of nurseries follow a similar pattern near the metropolitan areas of Pittsburgh, Erie and Harrisburg.

Looking back over the early years of the Pennsylvania Nurserymen's Association, we find the names of many, many old-timers such as: John Albrecht Nurseries (1882); Andorra Nurseries (1886); B. F. Barr & Son (1893); Boyer's Nurseries (1900); Conard-Pyle Co. (1897); DeKalb Nurseries, Inc. (1901); Enterprise Nurseries (1898); Farr's (1908); Hatfield (1888); Herr's (1904); LaBars (1901); J. Franklin Meehan & Sons, Inc. (1852); Montgomery Nurseries (1892); Morse & Morse (1911); Phoenix (1890); Pitzonka's (1891); Rakestraw-Pyle Co. (1866); Bert Smith (1897); Spring Valley Nurseries (1897); Styer's Nurseries (1890); Joseph W. Thomas & Sons (1853); Joseph Thomas Florists, Inc. (1895); Worley's Nurseries (1913), and Wyoming Valley Nursery (1910).

These pioneer Pennsylvania nurserymen laid the foundation for the

thriving industry as it is today. Pennsylvania—and the nation—can well be proud of this achievement.

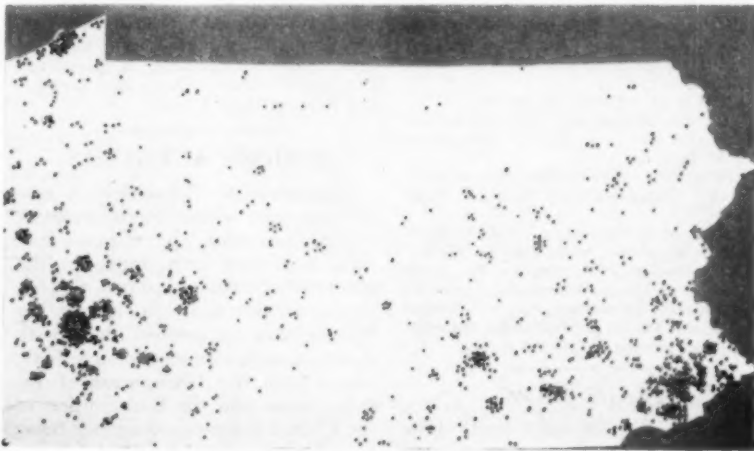
Interest in growing nursery stock seems to be increasing rapidly, largely because of the fact that new housing projects are springing up in many suburban areas. Industrial sites are being developed in rural areas and, as a result, demands for housing in these areas are on the increase. Likewise, small nurseries and garden centers follow the expansion program and are being established close to these sites.

The accompanying map of the commonwealth of Pennsylvania indicates the location of the nurseries affiliated with the Pennsylvania Nurserymen's Association. Visitors to the convention at Philadelphia may find it convenient to visit some of these nurseries in order to observe, firsthand, how Pennsylvania plays its part in the nation-wide "Plant America" program.

PLANTS MAPLE ABROAD

Assisting in the planting of a Scanlon red maple in the park at Rotterdam, Holland, recently was Edward H. Scanlon, Edward H. Scanlon & Associates, Olmsted Falls, O., grower of "Tailored Trees" and editor of *Trees* magazine.

Trees from all over the world have been planted by invitation in the 300-acre park, which is adjacent to the grounds housing the Floriade, the international horticultural exhibition that opens next March at Rotterdam.



The map above, showing the location of nurseries affiliated with the Pennsylvania Nurserymen's Association, indicates the concentration of nursery activity in the metropolitan areas of Philadelphia, Pittsburgh and Erie.

Special Programs

Plans Made for All at Philadelphia

EDUCATIONAL PROGRAM

At the Dallas convention last year, the special program of the A. A. N. garden center committee and that of the National Landscape Nurserymen's Association were held simultaneously, and many delegates found the choice between the two sessions a hard one to make. Realizing that a great number of nurserymen are interested in both landscaping and garden center topics, the two groups this year have scheduled a joint educational program, the first half of which will be devoted to garden center techniques and problems, with talks and discussions on landscape subjects to be presented during the second half.

Panel discussions, which allow exchange of information on the widest possible range of topics, are featured in the presentations of both the garden center committee and N. L. N. A. The joint program will be given Tuesday morning in the Grand ballroom of the Sheraton hotel and is arranged as follows:

TUESDAY, JULY 21

9 a. m.—"Garden Center Program Orientation," by Jack Schneider, chairman.
9:10 a. m.—"Increasing Your Share of the Consumer's Dollar," by Dr. Robert L. Smith, chairman, department of marketing, Syracuse University, Syracuse, N. Y.

10 a. m.—Question and answer period.

10:30 a. m.—Recess.

10:45 a. m.—Garden center panel (general discussion of garden center problems), with Jack Schneider, Orchard Nursery & Florist, Lafayette, Calif., moderator, and Larry Palmeter, Breck's Garden Center, Millburn, N. J.; Jack Siebenthaler, Siebenthaler Co., Dayton, O.; Willis Stribling, Stribling's Nurseries, Merced, Calif., and Don Hastings, Jr., H. C. Hastings Co., Atlanta, Ga., panel members.

12:10 p. m.—Break for lunch.

2 p. m.—"Flowering Crab Apples for Landscape Use," by Arie F. den Boer, Des Moines, Ia.

2:30 p. m.—"Forty Centuries of Gardening" (illustrated), by Ralph E. Griswold.

3:30 p. m.—"Operation Trade Secrets"—panel discussion, with Eugene Muller, DeKalb Nurseries, Norristown, Pa., moderator, and Louis Wissenbach, Squirrel Hill Nursery, Pittsburgh, Pa., and Ashton McDonald, Doyle & McDonald, Berwyn, Pa., panel members.

TRADE SHOW

As usual, an extensive trade show featuring products of interest to nurserymen will be an important part of the annual A. A. N. convention scheduled at the Sheraton hotel,

Philadelphia, July 18 to 23. The exhibitors' bonuses, to be offered again this year, are two RCA Victor Mark II stereo-orthophonic radio-victrola combination units, which will be on display throughout the show.

PLANS FOR THE LADIES

Among the several special events planned for the women attending the A. A. N. convention at Philadelphia, the trip scheduled to the Longwood Gardens, Kennett Square, Pa., will be a highlight. Other social features open to participation follow:

SUNDAY, JULY 19

4 p. m.—Kaffeeklatsch (informal), Hall of Flags East room.

8 p. m.—Special "Pennsylvania Dutch Nacht," in the Grand ballroom; gifts, refreshments, entertainment and dancing.

MONDAY, JULY 20

12:00 noon—Keynote luncheon—Grand ballroom. Keynote speaker, Arthur "Red" Motley, president, Parade Publications, Inc.

7 p. m.—Nurserymen's jamboree. Grand ballroom. Reception, clam bar and buffet supper, courtesy of the New England, New Jersey, New York and Pennsylvania nurserymen's associations. Special entertainment and dancing.

TUESDAY, JULY 21

9:45 a. m.—Leave Sheraton hotel for tour of famous Longwood Gardens (developed by the late Pierre Samuel du Pont). The tour will include a special fountain display.

12:30 p. m.—Ladies' Auxiliary luncheon at Longwood Gardens.

Ladies' Auxiliary officers: President, Mrs. Albert Vick, Philadelphia, Pa.; vice-president, Mrs. Jack Siebenthaler, Dayton, O., and secretary, Mrs. Wilbur Nisley, Harrisburg, Pa.

WEDNESDAY, JULY 22

7 p. m.—Past presidents' banquet, Grand ballroom, including a special entertainment feature, "Don't Miss Living," and dancing until 1 a. m.

JUNIORS' ACTIVITIES

Memorials of Philadelphia's momentous past, which is in many cases synonymous with the nation's history, hold first importance in the program of events planned for the junior nurserymen who attend the Philadelphia convention along with their parents. Independence Hall, where both the Declaration of Independence and the Constitution of the United States were signed; Betsy Ross' house, the birthplace of the American flag, and the Olympia, Admiral Dewey's flagship, all will be visited during a tour of historic Phil-

adelphia scheduled for Monday morning, July 20.

The morning and early afternoon of Wednesday, July 22, will be spent in Valley Forge, 22 miles north of the city, where Washington and his men endured the hard winter of 1777-78. Now a state park, the area offers much of interest, including General Washington's headquarters, restored soldiers' huts and the Valley Forge Museum of American History.

The past merges with the present and the future in the exhibits in the Commercial Museum and the Franklin Institute, which the juniors will tour on Monday and Tuesday, respectively. The Commercial Museum offers the nation's largest exhibit on city planning, showing Philadelphia in the past, present and future, along with exhibits on the commerce and culture of other countries. At the Franklin Institute, a fine collection of Franklinitiana is maintained in conjunction with scientific exhibits on modern transportation, chemistry, physics, electrical communications, astronomy and the graphic arts.

Visits to the Philadelphia zoo; the Philadelphia naval base, and to the Philadelphia Bulletin building, where the big presses will be viewed, are other highlights of the program, which is given in full below:

SUNDAY, JULY 19

4 p. m.—Get-acquainted party, Grand ballroom East.

8 p. m.—"Pennsylvania Dutch Nacht," Grand ballroom (with parents).

MONDAY, JULY 20

8:45 a. m.—Buses leave Sheraton hotel for tour of historic Philadelphia.

11:15 a. m.—"Dutch treat" lunch at Horn & Hardart's Automat.

12 Noon—Buses leave Automat for Philadelphia zoo and Commercial Museum.

7 p. m.—Nurserymen's jamboree, Grand ballroom (with parents).

TUESDAY, JULY 21

9:30 a. m.—Buses leave Sheraton hotel for Philadelphia naval base.

12 Noon—Buses leave naval base for box lunch in Fairmount park.

1:30 p. m.—Buses leave Fairmount park for Franklin Institute.

3:30 p. m.—Buses leave Franklin Institute for tour of Philadelphia Bulletin building.

5:30 p. m.—Return to Sheraton hotel by subway.

WEDNESDAY, JULY 22

9 a. m.—Buses leave Sheraton hotel for tour of Valley Forge state park.

12:30 p. m.—"Dutch treat" lunch (\$1) at restaurant in Valley Forge park.

7 p. m.—Past presidents' banquet.



Robert M. Hobbs, A. A. N. President

84th A. A. N. Convention

Sheraton Hotel, Philadelphia, Pa.

July 18 to 22, 1959

COMPLETE PROGRAM SCHEDULE

THURSDAY, JULY 16

9:00 A.M. A. A. N. board of directors, Room 545.

FRIDAY, JULY 17

9:00 A.M. A. A. N. board of directors, Room 545.

9:00 A.M. Ornamental Growers' Association stock committee, Room 547.

2:00 P.M. Fruit Tree Growers' Association stock committee, Room 547.

SATURDAY, JULY 18

9:00 A.M. A. A. N. board of directors, Room 545.

9:00 A.M. Ornamental Growers' Association, Delaware Valley, Suite D.

9:00 A.M. All-America Rose Selections board, Room 558.

10:00 A.M. National Landscape Nurserymen's Association board of directors, Room 547.

2:00 P.M. Fruit Tree Growers' Association, Delaware Valley Suite D.

SUNDAY, JULY 19

9:00 A.M. National Landscape Nurserymen's Association board of directors, Room 547.

9:00 A.M. All-America Rose Selections, Hall of Flags West.

10:00 A.M. A. A. N. convention site committee, Room 545.

1:30 P.M. N. L. N. A. landscape tour.

2:00 P.M. A. A. N. garden center committee, Room 540.

2:00 P.M. Nursery Association Secretaries, Delaware Valley Suites C and D.

2:00 P.M. A. A. N. market development and publicity committee, Rooms 556 and 558.

8:00 P.M. "Pennsylvania Dutch Nacht," Grand ballroom. An evening of entertainment and dancing, with gifts and refreshments.

MONDAY, JULY 20

9:00 A.M. Caucus of delegates, region I, Delaware Valley Suite B.

Caucus of delegates, region II, Delaware Valley Suite C.

Caucus of delegates, region III, Delaware Valley Suite D.

Caucus of delegates, region IV, Room 547.

Caucus of delegates, region V, Room 540.

Caucus of delegates, region VI, north balcony, Grand ballroom.

9:00 A.M. National Association of Plant Patent Owners, Hall of Flags West.

9:00 A.M. National Mail Order Nurserymen's Association, Hall of Flags East.

9:30 A.M. All-America Camellia Selections board of directors, Room 545.

12:00 Noon Keynote luncheon, Grand ballroom.

"Businessmen in Politics," by Arthur H. Motley, president, Parade Publications, Inc.

Norman Jay Colman award presentation.

Garden writers' award presentation.

2:30 P.M. General business session, Hall of Flags.

Call to order.

Report of credentials committee.

Certification and roll call of delegates.

2:40 P.M. President's address, by Robert M. Hobbs.

3:10 P.M. Treasurer's report and presentation of 1959-60 budget, by Valteau C. Curtis.

3:30 P.M. Report of the executive vice-president, by Dr. R. P. White.

4:00 P.M. Presentation of gavel from North Carolina Association of Nurserymen.

4:05 P.M. Presentation of proposed amendments to A. A. N. by-laws and standing policies.

4:45 P.M. Nominations: Directors, regions II, IV, V (to fill unexpired term), VI and at large; president; vice-president, and trustee.

7:00 P.M. Nurserymen's jamboree, Grand ballroom. Buffet, entertainment and dancing.

TUESDAY, JULY 21

9:00 A.M. All-America Camellia Selections, Hall of Flags East.

9:00 A.M. American Nurserymen's Protective Association, Hall of Flags West.

9:00 A.M. Educational program sponsored by the A. A. N. garden center committee and the National Landscape Nurserymen's Association, Grand ballroom.

(See special program on opposite page.)

2:00 P.M. Nursery Association Secretaries, Delaware Valley Suites C and D.

6:00 P.M. National Landscape Nurserymen's Association, supper meeting, Hall of Flags West.

Joseph Langran, Wheelwright, Stephenson & Langran, landscape architects, guest speaker.

WEDNESDAY, JULY 22

8:00 A.M. National Landscape Nurserymen's Association board of directors, breakfast meeting, Room 547.

9:00 A.M. General business session, Hall of Flags.

Call to order.

Roll call of delegates.

9:15 A.M. Market development and publicity committee report and presentation of 1959-60 budget, by J. Awdry Armstrong, chairman, and Howard P. Quadland, director of public information.

10:15 A.M. "Factors in the Standardization of Container-grown Plants," by Dr. Kenneth F. Baker, University of California, Los Angeles.

10:45 A.M. Secretary's report, by Curtis H. Porterfield.

11:15 A.M. Election of officers.

12:15 P.M. Special exhibitors' luncheon (by invitation), tiered balcony, Grand ballroom.

2:00 P.M. General business session, Hall of Flags.

Call to order.

Roll call of delegates.

2:15 P.M. Report of necrology committee, by Fred H. Kilner.

2:30 P.M. Report of special committees:

1959 A. A. N. convention, by Sidney B. Hutton, Jr., general chairman.

Convention site committee:

1961—region II, by C. Ellwood Stephens, chairman.

1962—region IV, by Wayne Ferris, chairman.

2:50 P.M. Unfinished business:

Reaffirm standing policies.

Adoption of bylaws amendments.

1959-60 general budget.

1959-60 market development and publicity budget.

Confirmation of Cincinnati, O., as 1960 convention site.

Announcement, 1960 convention, by James Scarff, general chairman.

Invitations for 1962 and subsequent years.

7:00 P.M. Past presidents' banquet, Grand ballroom.

"Don't Miss Living," by the Rev. J. Paul Kehm.

Dancing.



Vallean C. Curtis, Ex Officio



S. B. Hutton, Jr., General Chairman



Jesse Flory, Secretary

Who's Who on Convention Committee

The annual convention of the American Association of Nurserymen has grown into a large gathering with approximately 1,000 persons attending each year. Planning the details and making certain that the events run smoothly is no small job and is the duty of the convention committee in cooperation with the Washington office of the association. Selected almost a year in advance, the individuals who comprise this committee deserve special recognition and a vote of thanks from the A. A. N. members. All coming from region I of the A. A. N., the individuals who will serve this year have already distinguished themselves in regional, state and national association work and thus were chosen to perform these important jobs.

The following biographical

sketches and portraits will help to acquaint those who will be attending this 84th annual convention of the A. A. N. at Philadelphia, Pa., with the chairmen and executive committee members of the 1959 A. A. N. convention committee.

General Chairman

Serving as the general chairman of the Philadelphia convention is Sidney B. Hutton, Jr., Conard-Pyle Co., West Grove, Pa. Born at Memphis, Tenn., in 1913, he was graduated from Earlham College, Richmond, Ind., in 1935. After working at various jobs in the nursery industry, Mr. Hutton joined the Conard-Pyle Co. in 1942. His propagating work there was interrupted in 1943, when he began a 3-year career as lieutenant j. g. in the United States

Navy. He returned to the Conard-Pyle Co. after his discharge and served as shipping and propagation superintendent until he was elected vice-president and general manager in 1951.

Mr. Hutton's numerous trade affiliations include his membership in the Pennsylvania Nurserymen's Association, which he served as a member of the executive committee and chairman of the legislative committee. Currently he is kept busy as president of the National Association of Plant Patent Owners and the All-America Mum Selections and as a director of the National Mail Order Nurserymen's Association.

Mr. Hutton is well known in local community affairs, being active in the Community Chest and Parent-Teachers' Association. He served as



Klaas de Wilde, Executive Committee



Wilbur Nisley, Treasurer



William Flemer III, Executive Committee

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Louise Hutton, Ladies' Activities



Jack Styer, Publicity



C. J. Albrecht, Decorations

chairman of the local hospital fund drive and currently is a member of the school board. He married the former Louise Schneiderheinz in 1939, and they now have four children. Outboard motorboats, their construction, operation and maintenance comprise his major hobby.

Ex Officio

Valleau C. Curtis, Curtis Nurseries, Inc., Callicoon, N. Y., ex-officio member of the convention's executive committee, is a well-known figure at A. A. N. conventions, serving the association currently as director from region I, vice-president and treasurer, and formerly as a delegate to the board of governors for four years.

In his own state, he was one of the organizers of the New York State Nurserymen's Association, acting as its president during 1951 and 1952, as vice-president for two years and as a director for a long period. Mr. Curtis also served four terms as

president of the Eastern New York Nurserymen's Association and has been chairman of the Landscape Materials Information Service since its founding six years ago.

Born in 1903 at Callicoon, Mr. Curtis was graduated in 1925 from the New York state college of forestry, Syracuse University, where he was a member of the Alpha Tau Omega fraternity. He joined his father as a partner in the family nursery at Callicoon, then known as the Charles G. Curtis Co. The firm name was changed in 1952 to Curtis Nurseries, Inc.

At present serving as president of the First National bank at Callicoon, he is an active participant in fraternal and community affairs, being a past master of the Delaware lodge, F. and A. M., and past state grand lodge officer; a member of the Callicoon Kiwanis Club, and township historian. Mr. Curtis and his wife, the former Florence Simons, whom he married in 1928, have

three children. Their two sons, Valleau Edward and Robert C., are both associated with Curtis Nurseries, Inc., and their daughter, Mary E., is a senior in high school.

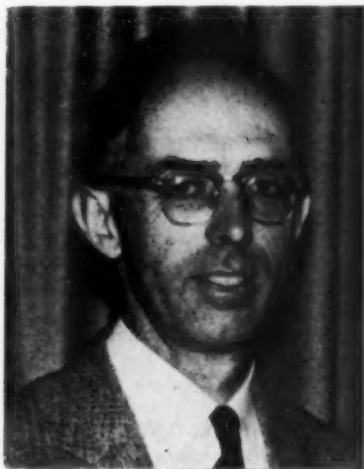
Secretary

Secretary of the Philadelphia convention committee, Jesse R. S. Flory, LaBars' Rhododendron Nursery, Stroudsburg, Pa., is a past president of the Pennsylvania Nurserymen's Association. He was graduated with a degree in landscape architecture from Pennsylvania State University in 1931 and joined LaBars' that same year. Now vice-president of the firm, he developed the landscaping department and has charge of all retail sales in the nursery.

Active in community work, Mr. Flory is currently serving his second term as burgess of the borough of East Stroudsburg and is past president of the Stroudsburg Rotary Club and the Monroe County Wel-



Arthur B. Copenhaver, Registration



Stanley M. Leighton, Transportation



Hans Hess, Greeters



Betty Vick, Ladies' Auxiliary



Al Vick, Entertainment



Thomas Yerkes, Exhibits

fare Association. He is a director of the East Stroudsburg National bank and a member of the chamber of commerce of Monroe county. As elder in the East Stroudsburg Presbyterian church, he is also active in the Association of Presbyterians.

Treasurer

Wilbur I. Nisley, who is treasurer of the convention's executive committee, has been interested in horticulture most of his life. He was born in 1899, at Harrisburg, and received his B.S. degree in horticulture at Pennsylvania State University, University Park, in 1923.

In 1928, after five years in commercial fruit, vegetable and nursery work, he helped establish Walter, Nisley & Walter, Inc., a firm of landscape contractors and nurserymen at Harrisburg, and has continued a member of this firm.

Active in the Pennsylvania Nurserymen's Association for 20 years, he has served that organization as a member of the executive committee and president. He is now secretary-treasurer of the association.

Mr. Nisley served eight years as a member of the Harrisburg shade tree commission, serves on the boards of the Harrisburg Art Association and Friends of Fort Hunter, is a trustee in the Methodist church and a Mason. He holds membership in the Pennsylvania and American Horticultural Societies and American Horticultural Council. He was elected to the honor society of agriculture, Gamma Sigma Delta, for achievement. In 1923 he married Pauline Fetterhoff, who shares his interest in horticulture.

On Executive Committee

William Flemer III, a member of the executive committee of the

A. A. N. convention, is the current president of the New Jersey Association of Nurserymen and a past president of the American Nurserymen's Protective Association. He represents the third generation of the Flemer family active in the management of the Princeton Nurseries, Princeton, N. J. After receiving his M.S. degree from Yale University, he joined the firm in 1948 and is now vice-president and superintendent of the nursery.

Mr. Flemer attended the Lawrenceville school and Yale University, where his studies were interrupted by three years of service with the army corps of engineers during World War II. He is a past president of the Ornamental Growers' Association and a trustee of the Stoney Brook-Millstone Watershed Association. In addition, he is a member of the Botanical Society of America, the Plant Propagators' Society, the American Horticultural Council and the American Forestry Association. He and his wife have two daughters, Louise, 8, and Harriette, 7, and a son, William IV, 5.

Klaas deWilde, Perkins-deWilde Nurseries, Inc., Shiloh, N. J., also a member of the executive committee, recently completed his second term as president of the New Jersey Association of Nurserymen and was elected A. A. N. delegate by the group at its winter meeting.

Born at Boskoop, Holland, in 1908, Mr. deWilde came with his parents to the United States in 1921, and his father started a nursery at Shiloh for the Jackson & Perkins Co., Newark, N. Y. The operation, which was later incorporated as Perkins-deWilde Nurseries, Inc., is a subsidiary of the Jackson & Perkins Co. Mr. deWilde has worked for the firm since it was

started and took over the active management on the death of his father 10 years ago. Quantities of container-grown stock are produced at the 1,000-acre nursery.

Mr. deWilde is supervisor of the Salem-Cumberland county soil conservation district and a director of the New Jersey farm bureau's migrant labor service. In addition, he is a member of the Bridgeton, N. J., park commission, a past president of the Bridgeton Lions' Club and a trustee of the First Presbyterian church of Bridgeton. He is married and the father of a son, Robert, a horticultural graduate of Rutgers University who is now associated with the nursery, and a daughter, Margaret, who attends the University of Delaware.

Ladies' Activities

Mrs. Louise Hutton, wife of this year's convention chairman, Sidney B. Hutton, Jr., Conard-Pyle Co., West Grove, Pa., joins her husband in the convention planning as chairman of the ladies' activities. Born Louise Schneiderheinz at Central City, Neb., in 1913, Mrs. Hutton attended Duchesne College, Omaha, Neb., and the University of Nebraska, Lincoln, before she graduated from Nebraska Central College, Central City, in 1934. She took graduate courses at Pendle Hill, Wallingford, Pa.

Before her marriage to Mr. Hutton at Atlanta, Ga., in 1939, she was employed in settlement house work and bookstores at Philadelphia and worked for newspapers at Chicago and Atlanta. Active in auxiliaries, local women's clubs and school leagues, she is a member of Kappa Kappa Gamma national fraternity. Mrs. Hutton is the mother of four

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Pennsylvania Facility for Research and Training

By Robert P. Meahl

The department of horticulture at the Pennsylvania State University, University Park, has a full program in ornamental horticulture, floriculture and landscape architecture, which includes teaching, research and extension.

Students have the opportunity to specialize in nursery management under one of three plans. The regular 4-year program gives training in plant materials, plant propagation, nursery management, arboriculture and maintenance, landscaping the home grounds and turf management, as well as insect and disease control, soils and fertilizers, plant physiology and the general background courses in chemistry, English, history, political science, economics and mathematics. Other courses may be elected to fulfill the individual needs of each student.

Two-year Course Offered

A 2-year, nondegree course in nursery management is offered for students unable to attend for the full four years. This course is tailored to give as much training in ornamental horticulture as possible in the time available but, of course, is not so complete as the 4-year program. However, the courses taken carry full college credit. Training is given in plant materials, plant propagation, arboriculture and maintenance, nursery management, turf management, entomology and soils and fertilizers. The training these

students receive enables them to become valuable employees for nurserymen.

Winter Program

The third plan is a winter or short course program consisting of four 8-week terms. These start in November, end the last of March and are completed in two years. This plan allows a student to attend the first two terms, and obtain employment with a nursery during the spring and summer, from April until the following November, when he returns to the campus for the third and fourth terms. Such students fill a definite need for nurserymen, in that they are available for employment during the busy season and can return for further training at its conclusion.

Following the completion of the four terms, the student is ready for permanent employment. During the four 8-week terms, the student receives work in plant materials, plant propagation, nursery management, tree and shrub maintenance, turf management, home landscaping, soils and fertilizers and general science. The courses taken do not carry college credit but are vocational in nature with practical application stressed.

Research activity at Penn State covers variety tests of ornamental plants, pruning practices affecting narrow-leaved evergreens, the use of intermittent mist and root-promot-

ing materials on the rooting of cuttings, the effect of extended photoperiods on the rooting and subsequent growth of plants, weed control in ornamental nurseries, the nutrition of ilex, the breeding of improved ornamental plants and the marketing of ornamental nursery crops.

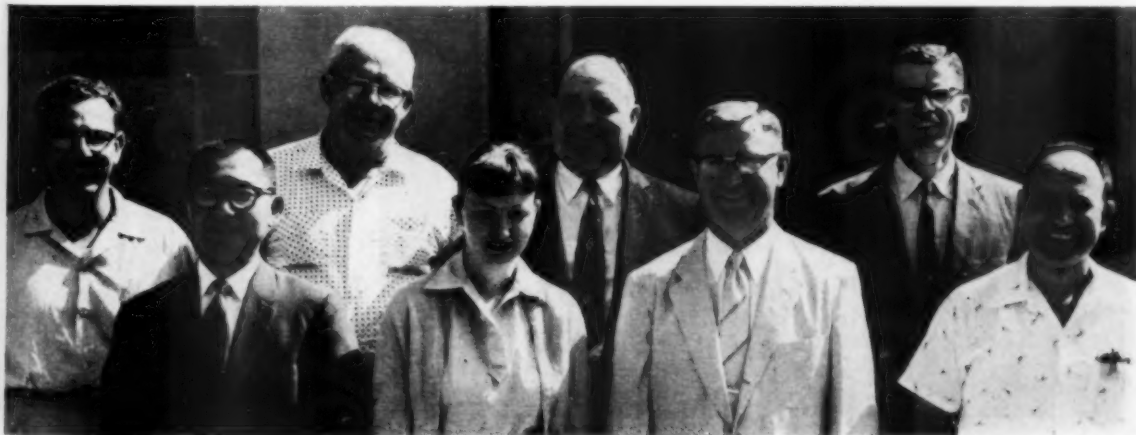
All-America Testing Grounds

Variety testing of ornamental plants was started over 20 years ago with major emphasis on annual flowers and outdoor roses, but has included woody ornamental nursery plants. Over 1,000 samples of flower seeds are tested yearly, with seeds obtained from the major producers and suppliers in this country and from Canada, Holland, Denmark, Germany, Switzerland, England, France and Japan. As a part of the flower-testing program, the garden at Penn State is one of the official All-America Selections gardens.

Over 250 varieties of hybrid tea, floribunda and grandiflora roses are under test as a part of the All-America Rose Selections trials. Beginning in 1959, All-America Mum Selections testings have been added. One of the staff members serves as a judge for each of these organizations.

The pruning of narrow-leaved evergreens has proved interesting, yielding information on the time, frequency and method of pruning. Data are being gathered on propagation by cuttings and will be ready for publication soon. Weed control studies have not been conducted long enough to make recommendations, but the preliminary results look promising. The emphasis on breeding has been on the development of improved dwarf shrubs, particularly viburnum. The first phase of the marketing study has been completed

[Continued on page 216]



Ornamental horticulture staff at the Pennsylvania State University: Left to right (front), Chiko Haramaki, Mrs. Lynne B. Smith, R. P. Meahl, A. J. Gianfagna; (back), J. L. Hayden, A. O. Rasmussen, S. Atmore, J. E. Brewer.

Tips for Better Landscapes

Multiple-Stemmed Trees—Part 2

By Clarence E. Lewis

Department of Horticulture, Michigan State University, East Lansing, Mich.

There are ways of tying an isolated clump-growing tree, or even a single-stemmed tree, in with its surroundings. For instance, in illustration A, the multiple-stemmed flowering dogwood (*Cornus florida*) is used in the lawn area of a garden, and around the dogwood is Japanese spurge (*Pachysandra terminalis*) made into a kidney-shaped bed.

Why was a tree used in this lawn area in the first place? For one reason, the lawn area is large and needs breaking up; for a second, the tree and ground cover serve to direct or circulate traffic so that people do not stand aimlessly about; third, height is needed to help focus attention on a feature not shown in the illustration, and fourth, it completes the design of the area.

Most people would have planted a dab or small circle of ground cover about the tree that would have looked like a blob in the landscape. The outer curve of this kidney island follows the same curve as the edge of the border in the distance, and there is a sufficient amount of pachysandra used to prevent a spotty appearance.

Why was a 3-stemmed flowering dogwood used instead of a single-stemmed tree? There is more than one reason. The several stems combine with the effect of the many-stemmed shrubs in the border and

give more basal weight to the area without overattracting attention. The extra stems give more woody effect to the garden that already has this atmosphere. There is less formality created by several stems than by one stem.

Avoid Attention Contests

An odd number of stems is generally more advisable than two. Three create a unit, while two suggests a contest for attention. Wherever two plants, two stems, two of anything are present, competition is created. One vies with the other. Three or more eliminate the contest.

It will also be noticed that a neutral material was used in the bed, rather than a group of different plants. The reason is obvious, since it was not intended that this plot of Japanese spurge and flowering dogwood should attract attention, but that it should help make the over-all garden a more enjoyable place in which to walk or sit. Pachysandra is also a part of the surrounding border, which is why it was selected to be planted with the flowering dogwood. It is not advisable to use plants that are entirely foreign to the surrounding border, but better that the same materials be included, so that a unit is created, not a complexity of interests.

A metal edge is used to retain

the form or outline of the bed and keep the pachysandra from spreading as it pleases. The edging is green, so as not to be too noticeable.

It is important, too, that the bed not be so extensive that it is dominant rather than subordinate to the rest of the garden.

In illustration B, where a major part of the home is of a natural wood finish, stems can be an important part of the landscape. The loose-growing open form at the left of the entrance is not out of place, and its curved branches are in keeping with their surroundings. Clump growers that show a large part of the stems blend well with houses of this type. Many persons feel that foliage should always be present on a plant, even to the ground level. If the branches are particularly attractive, why not allow them to be seen?

Birch Clumps

The species most often used as a clump grower in eastern United States is the gray birch (*Betula populifolia*) which is termed by such other names as silver, white and clump birch. The stems of collected young clumps, and most of them are dug from the wild, may not be white but more of an orange-brown color. They will, in time, however, take on a white bark, surprisingly clean in many cases. The gray birch in illus-



Illustration A — A multiple-stemmed flowering dogwood is frequently more effective than a single-stemmed tree.



Illustration B — Houses of a natural wood finish lend themselves as background for plants that show their stems.



Illustration C — The stems of young collected gray birch are not so white and clean as they will eventually become.



Illustration D — This many-stemmed London plane tree is attractive and can be an important part of landscape.

tration C has nearly graduated from its early brown color to a reasonably good white.

Other prospective good birches are canoe, or paper birch (*Betula papyrifera*), which becomes much taller than its gray relative, and the river or red birch (*Betula nigra*). The river birch has probably been neglected because of its ragged bark, and this may be just the reason why it should be used. Many people are not familiar with this birch, and some think of it only as a weed tree found along the edge of a stream.

The river birch has a natural tendency to develop several main stems, but can be trained into a single stem. When the main stem becomes a foot or greater in diameter, the raggedness disappears, and many do not recognize the tighter bark as that of a river birch.

The European white birch (*Betula pendula*, also listed as *Betula alba*) grows as a multistemmed tree, as do

some of its interesting cut-leaved variations. When the clean white bark of this birch appears on several stems it becomes even more interesting. This, coupled with lacy cut leaves, makes a pretty, usable tree, leaf miners and all.

Plane and Maple

The list of multiple-stemmed subjects aside from birches is extensive and includes some excellent trees and shrubs that can be found or grown as clump trees and larger shrubs.

There are many large trees that tend to send up several stems. Ordinarily these are better suited for large areas, because of the spread. In illustration D a London plane tree (*Platanus acerifolia*) shows that the tree could take up too much area. In the photograph the tree is much at home and in no way interferes with the scale of its surroundings. The first time I walked along the sidewalk shown in the illustration I



Illustration E — The red maple often sends up more than one main stem which we should sometimes utilize.

immediately noticed this tree, long before I noticed the three single-stemmed plane trees that are not seen in the illustration. Other persons have had the same reaction—from the same tree. One remembers this clump-growing London plane tree, but soon forgets the standard-growing plane trees nearby. The stems, instead of being straight, tend to have more character because of their twisting and turning characteristics.

Swamp Maple

Illustration E shows a many-stemmed red or swamp maple (*Acer rubrum*) that was left in the rear yard of the house shown. Today the tree is the most important plant on the property. It is not unusual to find red maple growing with several stems. They can be shaped into an attractive tree. There are many attractive features of the red maple

[Continued on page 128]



Illustration F — This gray birch clump was bowed over in the position pictured on three occasions last winter.



Illustration G — The mottled bark of Kousa dogwood differs from the alligator-like bark of the flowering dogwood.

North Carolinians Tour in the East

By Bryson L. James

A liberal education and sheer enjoyment were both obtained by participants in the smooth-running annual summer tour of the North Carolina Nurserymen's Association, held June 7 to 11. A group of 42 nurserymen and their wives and children made the trip this year, visiting interesting points in Delaware; Washington, D. C.; New Jersey, and Pennsylvania.

George Coulter, Carolina Nurseries, Charlotte, N. C., president of the N. C. N. A.; Hugh Vann, Raleigh, executive secretary, and Dr. Wayland W. Rennie, product technologist, industrial and biochemical department, E. I. du Pont de Nemours & Co., Inc., Wilmington, Del., were in charge of arrangements.

The group assembled at Fowler's Nursery, Raleigh, N. C., at noon, June 7, and were treated to box lunches before boarding the air-conditioned chartered bus. Headquarters for the tour were at the Du Pont hotel, Wilmington, Del., but the first night was spent at Washington, D. C., where the party enjoyed viewing the reflections of the Blue Mirror.

New Jersey Stop

The group left Washington early Monday morning and went directly to Perkins-deWilde Nurseries, Shiloh, N. J., where they were treated to lunch before touring this progressive establishment.

Methods used at the nursery were explained to the touring group. For canned nursery stock, Klaas deWilde, owner of the nurseries, is a



Left to right: Klaas deWilde, host to touring North Carolina nursery group; J. S. Howard; Dr. Wayland Rennie, and Hugh Vann, executive secretary of the North Carolina Association of Nurserymen.

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Research on Canned Stock

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[Continued on page 97]



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Alabama Group Convenes at Mobile

**Merchandising, Research Reports,
Pest Control, Soil Fumigation
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By Tom Eden

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Officers elected unanimously the final day of the program were as follows: President, Tom Sawada, Overlook Nurseries, Inc., Mobile; W. D. (Dan) Cabe, Naugher Nursery, Chase, vice-president; Prof. Henry Orr, Alabama Polytechnic Institute, Auburn, secretary-treasurer, and George Edwards, Coosa Nursery, Gadsden, trustee at large.

The convention started Sunday afternoon, June 7, with everyone's arriving at the Admiral Semmes hotel to register and then to enjoy the hospitality hour and buffet supper given by the Mobile nurserymen.

The first session opened in the ballroom Monday morning, June 8, with President Marcus Byers, Byers Nursery Co., Chase, introducing the Rev. Carl Adkins, Mobile, who gave the invocation. The address of welcome was made by the mayor of Mobile, Henry Luscher, with a response by Henry Homer Chase, Chase Nursery Co., Inc., Chase.

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Mr. Byers' president's address indicated the changes in the nursery industry that are really revolutionary in scope. He said that when he started out in the business the most popular plants were the Irish juniper, hardy hydrangea and California hedge, with fruit trees being

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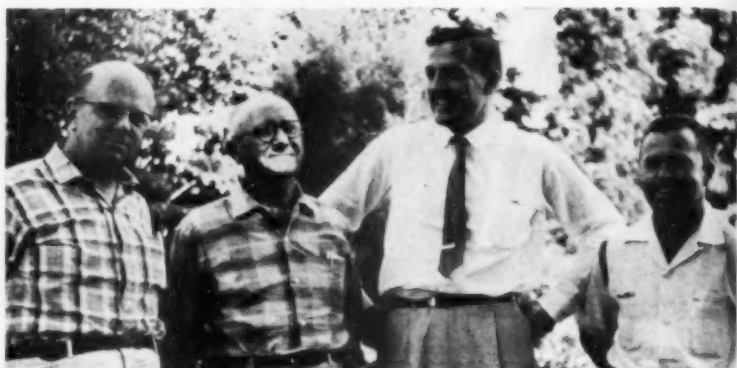
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[Continued on page 205]

Varied Topics at Georgia Convention

By Willette Hume

The annual convention of the Georgia State Nurserymen's Association was held June 7 to 9 at Radium Springs, Albany, Ga., with 91 persons attending a well-rounded program of excellent speakers.

At the business session the following officers were elected for next year: President, Frank A. Smith, Frank A. Smith & Co., Atlanta, Ga.; vice-president, Charles Morse, Jr., Morse Bros. Nursery, Chattanooga, Tenn.; treasurer, Donald Hastings, Jr., H. G. Hastings Co., Atlanta; member at large, L. B. Powell, Powell Nurseries, Thomasville, Ga., and executive secretary, Willette E. Hume, Atlanta.

Grasses for Georgia

The program opened Monday morning, June 8, with greetings from the president, James Patterson, Patterson Nursery, Albany. The first speaker was W. E. Freeborn, vice-president, H. G. Hastings Co. His talk on "Lawn Grasses for Georgia" started with the recommendation to observe the landowner's personal preference. In recommending grasses, one must consider such natural attributes as shade tolerance, rate of growth, texture and color of the leaves, susceptibility to diseases and insects and sowing requirements.

Grasses grown in Georgia, explained Mr. Freeborn, are the Bermudas, zoysia, centipede, St. Augustine and lawn grass mixtures preferred by some customers.

The next speaker, W. E. Blasingame, state director of the division of entomology, in giving the news from his department stated that those who work with insects and



Frank A. Smith, president of the Georgia State Nurserymen's Association, center, with two speakers at the state convention held last month, H. Boyer Marx, left, and Carroll E. Walls, right.

plant diseases find it difficult to comprehend the lack of understanding shown by the public and even part of the people who are engaged in plant production on just how important these insects and plant diseases are.

These persons fail to see what a tremendous toll insects and plant diseases take in this country, he continued. In Georgia, about one third of everything growers try to produce is destroyed by insects.

Mr. Blasingame said he knew some would wonder what this report had to do with nursery regulations, since a majority of insects causing these losses are aliens to the area. He declared the main way insects are spread is by nursery stock.

He reported what Georgia is doing to strengthen the nursery program. Comparing the 837 nursery

inspection licenses issued in 1957 with the 2,294 licenses issued this year, he said inspections had increased by 40 per cent.

Research at Athens

"Report on Research from Athens" was given by Dr. D. V. Sweet, assistant professor of horticulture, University of Georgia, Athens. Most of his work was illustrated on slides showing findings of weed control by the use of black plastic. Used for two years was 4-mil black plastic and it was still good for the third year; the only weed that could grow through it was nut grass. The cost of using it after two seasons was one fourth of what weed control would cost in row crops. Dr. Sweet felt this would be true in container work as well.

Shown were mist propagation slides where no medium was used at all, and plants were doing well. Dr. Sweet explained that as soon as the cutting was rooted, it had to be taken from under the mist. It was also found that cuttings rooted under mist were healthier and root hairs were not disturbed when moved as were those rooted in sand.

New Tools for Nurserymen

After lunch, the afternoon session was opened by Fred Galle, horticulturist at Ida Cason Callaway Gardens, Pine Mountain, Ga., who showed slides on new tools and new plants for nurserymen. The tools included lawn mowers, compost mixers, sprayers, power saws and shop equipment that had been converted

[Continued on page 153]



Officers of the Georgia State Nurserymen's Association named at Radium Springs, Albany, Ga., last month: Left to right, Frank A. Smith, president; Mrs. Willette Hume, executive secretary; Charles Morse, Jr., vice-president, and L. B. Powell, member at large. Donald Hastings, treasurer, was not present for the photograph.

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South Carolina Association Takes Strides at Annual Convention



Newly elected officers of the South Carolina Nurserymen's Association: Left to right, seated, W. D. Merry, vice-president; J. J. Bracken, president; Mrs. J. W. Moon, secretary-treasurer; standing, W. R. Marvin, ex officio; J. M. Sprott and Curtis Nelson, both executive committee members.

Forms Committee to Promote Industry, Raises Dues and Hears Varied Reports

Strides were taken at the 12th annual meeting of the South Carolina Nurserymen's Association convention held June 14 to 16 at the Hotel Wade Hampton, Columbia, to have the state organization take a more active part in the promotion of the state's nursery industry. In order to give the group added finances to accomplish this goal the association's dues were raised from \$5 to \$10 per year, retroactive to June 14, the start of the new dues-paying year. To formulate a plan, a voluntary group of 10 members was selected to work with the executive committee and empowered to act within the financial means of the organization.

Close to 100 persons registered for the event, hearing talks on merchandising, highway beautification

and weed and nematode control, as well as other reports from personnel at Clemson College, Clemson. Elected to lead the association for the coming year were the following: President, J. J. Bracken, J. Jack Bracken Nursery, Piedmont; vice-president, Walter D. Merry, Merry Landscaping & Lawn Service, Columbia, and secretary-treasurer, Mrs. J. W. Moon, Moon Nursery, Piedmont. Elected to the executive committee were J. M. Sprott, Manning Nursery, Manning, and Curtis Nelson, Anderson Nurseries, Anderson. The retiring president, William R. Marvin, Wildwood Nurseries, Walterboro, is the ex-officio member of the committee.

A social hour and buffet dinner were enjoyed Sunday evening, June 14, while the convention was officially called to order by President Marvin the following morning. He explained that Mrs. Robert E. Marvin, Wildwood Landscape Designers & Contractors, Walterboro, had been appointed secretary-treasurer earlier this year, as Mrs. Leo B. Scott, Spartan Wholesale Nurseries, Inc., Spartanburg, had to resign due to the ill health of her husband.

Membership

The membership report revealed that there are 73 active, 15 associate and six honorary members. Six additional new members were added at the convention. The treasurer's report showed a balance of \$205.81 on hand as of June 14 and \$1,096.83 in the savings account.

Introduced next was Senator Edwin Fraser, Southern States Nurseries, Inc., Macclenny, Fla., who brought greetings from the Florida state association. He urged the

South Carolina group to raise its dues so as to be better able to afford any increased activities that it might take on. He emphasized that many fruits can be obtained from an organization and cautioned the group to be vigilant for legislation introduced in the state. The benefits gained from research can be looked toward by the South Carolina association, he said.

After a word of welcome given by the mayor of Columbia, the honorable Lester Bates, F. E. McEachern, Jr., of the South Carolina highway department, talked on the present and future plans pertaining to beautification of the highway system. He emphasized that one of the biggest problems is litter; more than \$2,000,000 a year is spent in this direction, and very little of it shows, he said.

There are 25,000 miles of paved highways in South Carolina, he pointed out, and twice that number of shoulders; so maintenance is a big problem. A large clover-leaf interchange occupies 40 or 50 acres of land and is difficult to maintain. Varieties of plants, he continued, cannot be noxious or create a hazard. Local varieties are selected, for the plants must be hardy.

Often local garden clubs will become overenthusiastic and take on too large a project of highway beautification. When the enthusiasm wanes, the members find there is too much work involved; so a good job is not done. In these projects there should be an understanding as to whose responsibility it is to remove the plantings if a road needs to be widened or relocated.

Along the 678 miles of interstate highway now under construction in

[Continued on page 189]



Retiring President W. R. Marvin, at left, and Arthur Lancaster, Coleman Nursery, Inc., Portsmouth, Va., who spoke on merchandising at annual convention of South Carolina Nurserymen's Association.

Propagating Unusual Shade Trees

By Roger G. Coggeshall

Propagator, Cherry Hill Nurseries, West Newbury, Mass.

The choice of trees for shade and street-tree purposes is a subject which has received considerable attention in recent years. Among the plants recommended for municipal planting are many that are found only in arboretums and botanical gardens. The propagation of these plants is the subject of this article.

Seed Propagation

Seed propagation is the cheapest and easiest method for producing shade trees. No elaborate equipment, such as bottom heat, automatic ventilation and humidistats, is required, with the result that a salable plant is produced in a relatively short period. Tree seeds can generally be divided into one of three groups, depending upon the type of pretreatment necessary for germination. In the first group are those seeds which require no pretreatment for germination; in the second, are those which show signs of delayed germination caused by a dormant embryo condition, and in the third are those which have a tough, impermeable seed coat in addition to the already mentioned dormant embryo condition.

In the group of tree seeds requiring no pretreatment for germination are such as *Evodia danielli*, *Cercidiphyllum japonicum* and *Phellodendron amurense*. The seeds of these plants are collected as they ripen, cleaned and spread out to dry. After being dried thoroughly, they are stored in a dry location until sown. The actual time of sowing depends upon an individual's operation. Seeds may be sown early in a greenhouse (February to March), and the resulting seedlings transplanted into flats and subsequently planted out into nursery rows in the spring, a procedure practical only when the value of the plant warrants this extra effort and expense. Seeds can be sown directly into outdoor frames in the early spring (mid-March to mid-April), where the resulting seedlings can be left undisturbed throughout the first growing season.

Tree seeds which show signs of delayed germination caused by a dormant embryo are found in the following genera: *Carpinus*, *acer*, *magnolia* and *cornus*. The seeds are collected, separated from the pulpy fruit, if necessary, as is the case with *magnolia* and *cornus* species,

and dried. After they are dried thoroughly, they may be handled by one of two methods.

The first method is to store the seeds dry until November or December. At this time they are mixed with moistened sand or sand and peat. This combination is then placed in polyethylene bags, which in turn are sealed tightly with a rubber band and put into a refrigerator at 40 degrees Fahrenheit, remaining at this temperature for a period of three months. At the end of this time (February or March), the seeds can be sown either into flats in a greenhouse or into protected frames outdoors.

Two Advantages

This method has two advantages. The first is that there is no danger of having the seeds dry out during the 3-month stratification period, since they are stratified in polyethylene plastic bags. The second is that larger seedlings can be obtained by sowing the seeds early (February or March) in a greenhouse.

The second method is to sow the seeds in prepared beds immediately after cleaning. Handled in this manner, the seeds receive their necessary exposure to cold (stratification period) during the winter months and germinate in the spring. There is, however, always a chance of rodent damage and drying out during the long winter months, but this possibility is completely outweighed by the advantages of germinating the seeds directly outdoors.

Ostrya virginiana, *Tilia euchlora*, *Tilia japonica* and *Davidia involu-crata* have seeds with a tough, impermeable seed coat in addition to a dormant embryo. Seeds from these trees may be germinated in several ways. The method employed by most nurserymen is to sow the cleaned seeds directly into prepared seedbeds in the fall (September to October) and leave them undisturbed until they germinate. This method, however, is time-consuming, as it takes approximately 18 months for the seeds to germinate. In addition, germination results are erratic. To overcome these disadvantages, two shorter techniques are now being employed, one on a practical basis, the other experimental.

The first technique involves the use of polyethylene plastic bags in

the same manner described previously for germinating seeds having a dormant embryo condition. However, once the seeds are sealed in the polyethylene plastic bag, the bag is exposed to warm, fluctuating temperatures of 60 degrees to 85 degrees F. for a period of five to six months. This warm-temperature treatment eliminates the first obstacle to germination, the tough, impermeable seed coat. Exposure to warm temperatures for this length of time causes the hard seed coat to rot, allowing air and water to penetrate. The seeds are thus prepared for the second step in germination, that of overcoming the dormant embryo.

This second step is easily accomplished by placing the plastic bag into a 40 degrees F. refrigerator for three months, exactly the same procedure described previously for those seeds having only a dormant embryo condition. At the end of the 3-month period, the seeds are removed from the refrigerator and sown directly into outdoor frames (June).

While it is true that this procedure requires a period of eight or nine months for success, it is still far shorter than the 18 months required to germinate the same seeds when sown outdoors. By using the plastic bag technique not only good germination results can be obtained at a time of year when the seeds can be handled, but the results are fairly consistent. By using these plastic bags, the pretreatments necessary for good germination can be easily controlled.

Experimental Acid Treatment

The second technique is purely experimental. It involves the use of concentrated sulphuric acid (98 per cent), which should be used only with the greatest caution. Seeds from such plants as *tilia*, *ostrea*, *dauidia* and *chionanthus* were soaked in concentrated sulphuric acid for different lengths of time, with both favorable and unfavorable results. In some instances the seeds were soaked too long, so that the embryos were killed by the penetrating acid. In other tests, the seeds were soaked for the correct period; only the tough, impermeable seed coat was removed, and the first step for successful germination was shortened. The ideal method is to soak the seeds in the

[Continued on page 213]





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ILEX AQUIPERNYI BRILLIANT (5)

Truly a superb Holly. Its captivating dark green foliage having a reddish cast on its new growth, makes a delightful setting for its brilliant berries that are produced in profusion. Self fertile.

2 1/4" pot .25 3" pot .45
1-gal. .75 5-gal. 2.75

COTONEASTER CONGESTA (6)

A very beautiful, low growing shrub with appealing spreading branches, clothed with very attractive glossy green leaves. A welcome addition to your sales yard. Produces colorful light pink flowers in spring followed by small red fruit.

1-gal. .60

BERBERIS TRIACANTHOPHORA THREE SPINE BARBERRY (5)

A hardy evergreen barberry, with very beautiful lustrous green leaves above a pleasing white beneath, with graceful weeping habit of growth. Resistant to stem rust.

2 1/4" pot .20 3" pot .35
1-gal. .75 2-gal. 1.75

PYRACANTHA COCCINEA LALANDI MONROVIA (4)

One of the hardiest Pyracantha. This specially selected strain insures you sprays of bright orange berries in profusion, and its superior upright habit and lustrous green foliage, plus abundance of berries make it a must in every planting.

2 1/4" pot .18 1-gal. .60
5-gal. 2.00

PLACE SOME
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*Number following description refers to minimum temperature "Hardiness Guide." See Pages 40 and 41 of your MN general catalog.



MONROVIA NURSERY Co.

P.O. BOX Q, AZUSA, CALIFORNIA

Cartwright Nursery Co.

1959 — 1960

We want to again thank our many customers and friends for their splendid cooperation, which made the season just past the best ever for us. We are listing below some of the items which we will have to offer for the coming season. Growing conditions have been good this spring and we will have to offer for the season the greatest quantity of first-class stock that we have ever had. We cordially invite you to visit us either at the convention or at the nursery and would be most happy to have you see our fields and growing methods. Plan to visit us on your vacation trip.

CONIFERS

Cedrus atlantica, 2 to 6 ft.
Cedrus deodara, 2 to 6 ft.
Cedrus libani, 2 to 6 ft.
Cupressus arizonica gareei, 3 to 5 ft.
Chamaecyparis plumosa, 2 to 4 ft.
Chamaecyparis plumosa aurea, 2 to 4 ft.
Chamaecyparis Cyano Viridis, 18 ins. to 4 ft.
Arborvitae, orientalis Berckmans Golden, 12 to 36 ins.
Arborvitae, orientalis Bonita, 12 to 36 ins.
Arborvitae, orientalis fruitlandi, 15 to 30 ins.
Arborvitae, orientalis Baker, 18 ins. to 5 ft.
Arborvitae, orientalis Blue Cone, 18 to 36 ins.
Arborvitae, orientalis excelsa, 18 ins. to 5 ft.
Arborvitae, orientalis newarki, 24 to 36 ins.
Arborvitae, orientalis Mayhew, 24 to 36 ins.
Arborvitae, occidentalis globosa, 12 to 30 ins.
Arborvitae, occidentalis compacta erecta, 12 to 36 ins.
Arborvitae, occidentalis Dark Green, 18 ins. to 6 ft.
Arborvitae, occidentalis pyramidalis, 18 ins. to 5 ft.
Juniper, Andorra, 12 to 30 ins.
Juniper, chinensis procumbens, 12 to 24 ins.
Juniper, chinensis hetzi glauca, 12 to 42 ins.
Juniper, chinensis pfitzeriana, 12 to 36 ins.
Juniper, chinensis pfitzeriana Blue, 12 to 24 ins.
Juniper, chinensis pfitzeriana compacta, 12 to 36 ins.

Juniper, chinensis pfitzeriana compacta Kallay, 12 to 24 ins.
Juniper, chinensis pfitzeriana aurea, 12 to 24 ins.
Juniper, chinensis pfitzeriana nana, 12 to 30 ins.
Juniper, communis depressa aurea (Golden Cedar Juniper), 12 to 24 ins.
Juniper, virginiana repandens, 12 to 30 ins.
Juniper, sabina, 12 to 24 ins.
Juniper, sabina Von Ehron, 12 to 36 ins.
Juniper, sargentii, 12 to 24 ins.
Juniper, chinensis mascula, 3 to 5 ft.
Juniper, chinensis densa glauca, 2 to 5 ft.
Juniper, keteleeri, 3 to 5 ft.
Juniper, chinensis sylvestris, 3 to 4 ft.
Juniper, chinensis hetzi glauca, pyramids, 2 to 5 ft.
Juniper, sabina Von Ehron, pyramids, 2 to 5 ft.
Juniper, excelsa stricta, 1 to 3 ft.
Juniper, maneyi, 1 to 3 ft.
Juniper, squamata meyeri, 1 to 2 ft.
Juniper, virginialis, 1 to 3 ft.
Juniper, virginiana, 2 to 3 ft.
Juniper, virginiana burki, 2 to 5 ft.
Juniper, virginiana canaerti, 2 to 5 ft.
Juniper, virginiana Dundee, 2 to 5 ft.
Juniper, virginiana glauca, 2 to 5 ft.
Juniper, virginiana Hillspire, 2 to 6 ft.
Austrian Pine, 1 to 5 ft.
White Pine, 1 to 6 ft.
Mugho Pine, 1 to 2 ft.

BROAD-LEAVED EVERGREENS

Abelia grandiflora, 2 to 4 ft.
Barberry, julianae nana, 1 to 2 ft.
Buxus sempervirens, 1 to 2 ft.
Buxus koreana, 15 to 18 ins.
Camellia sasanqua, 2 to 3 ft.

Cleyera japonica, 1 to 3 ft.
Cotoneaster decora lactea, 1 to 2 ft.
Elaeagnus fruitlandi, 2 to 4 ft.
Elaeagnus simoni, 2 to 4 ft.
Euonymus alatus compactus, 2 to 3 ft.

BROAD-LEAVED EVERGREENS (Con't.)

Conium coloratus, 1 to 3 ft.
Conium fortunei erectus, 1 to 2 ft.
Conium patens, 1 to 4 ft.
Conium, selected types, 1 to 3 ft.
Conium cornuta burfordi, 1 to 3 ft.
Conium cornuta femina, 1 to 3 ft.
Conium cornuta femina, selected types, 1 to 4 ft.
Conium cornuta Hume, 1 to 3 ft.
Conium crenata convexa, 1 to 3 ft.
Conium crenata hetzi, 1 to 2 ft.
Conium crenata Biloxi, 1 to 3 ft.
Conium crenata rotundifolia, 1 to 4 ft.
Conium crenata repandens, 1 to 2 ft.
Conium glabra, 1 to 3 ft.
Conium opaca, seedlings, 2 to 6 ft.
Conium opaca Ardens, 3 ft.
Conium opaca Croonenburg, 2 to 6 ft.
Conium opaca East Palatka, 2 to 8 ft.
Conium opaca fosteri, 2 to 6 ft.
Conium opaca howardi, 2 to 6 ft.
Conium opaca Reynolds, 2 to 5 ft.
Conium opaca Taber No. 3, 2 to 8 ft.
Conium vomitoria, 1 to 5 ft.

Ilex vomitoria, dwarf, 15 to 18 ins.
Ilex vomitoria Pride of Houston, 1 to 3 ft.
Illicium anisatum, 2 to 4 ft.
Jasmine, floridum, 1 to 3 ft.
Ligustrum lucidum, Black Wax, 1 to 3 ft.
Ligustrum Suwannee River, 1 to 3 ft.
Laurocerasus caroliniana (Cherry Laurel), 2 to 6 ft.
Laurocerasus officinalis (English Laurel), 2 to 4 ft.
Strap-leaved Laurel (zabeliana), 1 to 3 ft.
Lonicera yunnanensis, 1 to 3 ft.
Loropetalum texanum, 1 to 3 ft.
Magnolia glauca, 2 to 8 ft.
Magnolia grandiflora, 2 to 10 ft.
Nandina domestica, 1 to 4 ft.
Osmanthus aquifolium, 1 to 3 ft.
Osmanthus fortunei, 1 to 3 ft.
Photinia serrulata, 1 to 4 ft.
Viburnum burkwoodi, 2 to 4 ft.
Viburnum chenaulti, 2 to 4 ft.
Viburnum juddi, 2 to 3 ft.
Viburnum rhytidophyllum, 1 to 4 ft.

DECIDUOUS TREES — B & B

Quercus florida, 2 to 5 ft.
Quercus florida rubra, 2 to 4 ft.

Magnolia nigra, 2 to 4 ft.
Magnolia soulangeana, 2 to 6 ft.
Magnolia stellata, 1 to 3 ft.

TERMS: Our terms are net, 30 days from invoice date, to firms with established credit, unless otherwise arranged. Interest at 6% will be charged on past-due accounts.

ORDERS: Orders are booked subject to crop failure or injury to stock and to errors in count or grades.

CLAIMS: Claims made for any reason must be made promptly to receive consideration. Claims for errors in count or for stock injured in packing or otherwise must be made within 10 days of receipt of stock. All claims made promptly will receive careful consideration. We do not guarantee the life of any stock. We guarantee to ship good-quality plants, in good condition when we load them out.

QUANTITIES: Our prices are based entirely on wholesale quantities, and on long and widely assorted lists of stock, the per 10 price will prevail, even if a full load of stock is ordered. This is necessary because of the greater cost of assembling and loading such an order. Normally 25 or more plants will take the 100 rate.

SHIPPING: All stock is sold F.O.B. our nursery at Collierville and travels at the risk and expense of the purchaser. We do have access to a large fleet of refrigerator semitrailer vans at a very advantageous rate and arrange for delivery to you very economically. We make pool shipments to customers who want less than a full truckload of plants and we usually prepay freight charges on pool shipments and prorate the cost to the customers on a weight basis. We do not box any plants for L.C.I. shipment.

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COMING EVENTS

MEETING CALENDAR

July 18—Western New York Arborists' Association, organization meeting Durand-Eastman park, Rochester, N. Y.

July 18 to 23—American Association of Nurserymen, annual convention and trade show, Sheraton hotel, Philadelphia, Pa.

July 30 and 31—Indiana Association of Nurserymen, summer meeting, Indianapolis, Ind.

August 4 to 7—Michigan Association of Nurserymen, nursery and landscape management conference and nursery tour, Michigan State University, East Lansing.

August 5—New Jersey Association of Nurserymen, summer meeting, Princeton Nurseries, Princeton, N. J.

August 5 to 7—West Virginia Nurserymen's Association, summer meeting, Daniel Boone hotel, Charleston, W. Va.

August 6 and 7—Iowa Nurserymen's Association, summer meeting, Shenandoah Nurseries, Shenandoah, Ia.

August 9 to 11—National Mail Order Nurserymen's Association, Inc., summer meeting, Hotel La Salle, Chicago, Ill.

August 9 to 15—A. A. N. Nursery Management Conference, Georgia Center for Continuing Education, Athens, Ga.

August 11 to 13—Ohio Nurserymen's Association, summer meeting, Lake Erie College, Painesville, O.

August 12—Pennsylvania Nurserymen's Association, summer meeting, Hershey park, Hershey, Pa.

August 12—Massachusetts Nurserymen's Association, summer meeting, Corliss Bros., Inc., Ipswich, Mass.

August 16 to 18—Virginia Nurserymen's Association, summer meeting, the Cavalier hotel, Virginia Beach, Va.

August 16 to 19—Texas Association of Nurserymen, annual convention, Fort Brown memorial center, Brownsville, Tex.

August 17 to 21—National Shade Tree Conference, annual meeting, Statler hotel, Detroit, Mich.

August 19—New England Nurserymen's Association, summer meeting, Harkness memorial park, Waterford, Conn.

August 23 to 25—Southern Nurserymen's Association, annual convention, Robert Meyer hotel, Jacksonville, Fla.

August 30 to September 5—A. A. N. Nursery Management Conference, Sagamore Conference Center, near Raquette Lake, N. Y.

September 3 and 4—Wisconsin Nurserymen's Association, summer meeting, Nepco Lake Nursery, Port Edwards, Wis., and Leland Jens Nursery & Landscape Co., Wisconsin Rapids.

September 10 to 12—Louisiana Association of Nurserymen, convention, Hirsch youth building, Louisiana state fairgrounds, Shreveport.

September 10 to 12—Arkansas State Nurserymen's Association, convention, Vel Rose motel, Hot Springs, Ark.

September 22 to 24—California Association of Nurserymen, annual convention, Lafayette hotel, Long Beach, Calif.

October 7 to 10—American Horticultural Council, 14th annual congress, Rochester, N. Y.

[Continued on page 32]

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Nurserymen from all over the country show, more
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Now is the time to stock up your sales
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your customers a complete selection of
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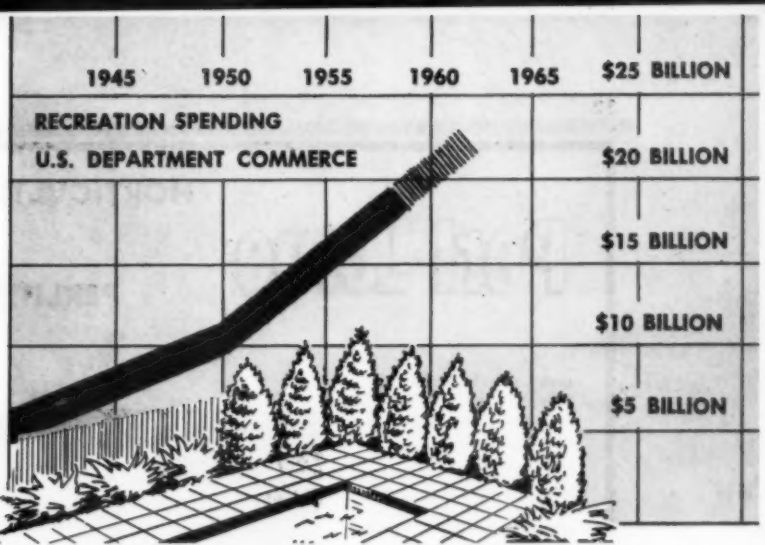
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In their sixth growing year. Specimen
shape in a small plant. Size: 10 to 12
inches high. Packed 10 in a crate. Shipped
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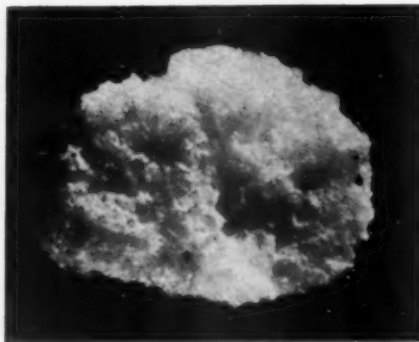
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now provides a scientific, reliable method for plant production and marketing.

Perl-Lome makes an ideal medium for container growing, propagating cuttings, germinating seeds and packing and shipping plants. These uses have been proven by tests at agricultural experiment stations and by commercial growers.

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PLAN N. Y. TREE GROUP

Meeting at Durand-Eastman park, Rochester, N. Y., July 18, is a group of arborists who plan to form the Western New York Arborists' Association, according to an announcement by Jake Gerling, Rochester, organization chairman. Assisting him is Fred Micha, Monroe Landscaping Service, Inc., Rochester.

The purpose of the meeting is to enroll charter members, adopt a constitution and elect officers. A guided tour of the park is being planned, and a dinner will be held at Pat's restaurant, at the entrance to the park.

The stated objectives of the organization are to unify workers in the fields of arboriculture and landscape development, to obtain legislation controlling work in these fields and to promote interest among all workers in order to develop competent, devoted operators.

Meeting programs will include tours and visits that will further the interest and education of the members. The New York College of Forestry, Syracuse, and Victoria park, Canada, across from Niagara Falls, N. Y., are suggested meeting places for the near future.

MICHIGAN CONFERENCE

Plans for the program of the nursery and landscape management conference of the Michigan Association of Nurserymen have been announced. The event will be held at the Kellogg Center, Michigan State University, East Lansing, August 4.

After registration, the morning program will begin with a panel discussion at 10 a. m. on "Personnel Problems." Speaking at 11 a. m. is Lloyd Weaver, Wayside Gardens, Mentor, O.

At 1:15 p. m., after a break for lunch, a talk, "Nematodes on Woody Ornamentals," will be given by Dr. J. A. Knierim, department of entomology, M. S. U. A Michigan State University interview will be given by Harold Davidson at 2 p. m., and at 2:45 p. m., a report of the M. A. N. will be made by President Harold Hicks, Cottage Gardens, Lansing.

Discussion groups, starting at 3:15 p. m., on nursery production, landscape construction, landscape architecture and garden centers and a session for Christmas tree growers will end the afternoon program.

After a barbecue dinner at 6 p. m., Prof. Milton Baron, department of landscape planning and urban development, M. S. U., will entertain

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the group with a landscape tour of Europe.

MICHIGAN TOUR ROUTE

The 1959 annual tour of the Michigan Association of Nurserymen will feature visits to the leading nurseries in Lake county, Ohio. As usual, the M. A. N. is planning its 3-day bus tour to follow immediately the group's nursery and landscape management conference scheduled for August 4 at the Kellogg Center, Michigan State University, East Lansing.

August 5, the group will reach Mentor about 2 p. m. and first visit the retail garden centers of Mentor Floral Gardens and Gerald K. Klyn, Inc., a firm that grows much of its own container stock. After dinner, both glass and plastic greenhouses will be viewed that evening at the Bosley Nursery, Mentor, where rhododendrons, azaleas, holly and roses are grown.

Cole Nursery Co., Painesville, a large wholesale nursery growing shade trees and general stock, is the group's first stop the next morning, August 6. There the misting facilities and other equipment will be of special interest. New storage quarters will be seen at the next point of visit, Melvin E. Wyant, Rose Specialist, Inc., Mentor.

A box lunch will be served that day at the Holden Arboretum, Mentor, where the nurserymen will have opportunity to view the rare plants growing there. Afterward there will be a drive past Lake Erie College, Painesville, and the projects for the centennial celebration of the Lake County Nurserymen's Association.

The outdoor misting system of Champion Nurseries, Painesville, will be of interest when the tour group visits that firm's establishment in the afternoon. The next stop is at Lake county's largest nursery, Horton Nurseries, Inc., Painesville, where equipment and a drainage project will draw special notice.

After dinner at historic Old Tavern, Unionville, Zampini Nursery, a small firm growing roses and general stock, and the establishment of Paul Otto will be visited at Perry. Mr. Otto propagates largely by the cold-frame method.

The first visit the next morning, August 7, will be made to Wayside Gardens, Mentor, a large retail mail-order and wholesale nursery that specializes in the growing of perennials. The last nursery visit of the tour will be made later that morning at Donewell Nurseries, Painesville,

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Red red roses are the ones your customers love best. And here they are on a grand scale . . . on a proud erect everblooming bush of the grandiflora class. Fit for a governor's mansion or a rose-covered cottage. Sure to be a vote getter in your nursery.

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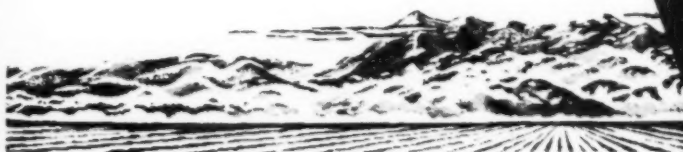
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where Joseph Kallay originated the Blaze rose and where unusual plant items are growing.

NEW JERSEY MEETING

Princeton Nurseries, Princeton, N. J., will be the location for the summer meeting of the New Jersey Association of Nurserymen. The date set for the event is August 5, according to William E. Snyder, secretary of the association. There will be a conducted tour of the establishment, and lunch and dinner will be served there. No formal business program is planned.

IOWA PLANS

The summer meeting of the Iowa Nurserymen's Association will be held at Lake's Shenandoah Nurseries, Shenandoah, August 6 and 7. Visiting nurserymen may register for the meeting at Lake's main storage building Thursday, August 6. Those arriving earlier will be welcomed in the office. Tours of the nurseries at Shenandoah will be made by bus, starting from the Shenandoah Nurseries' storage building at various times Thursday afternoon and Friday morning.

Lunch will be served at the nursery Thursday noon, and there will be cocktails and a picnic supper at the D. S. Lake home Thursday evening.

Lake's has reserved motel and hotel rooms at Shenandoah for the meeting. Requests for room reservations should be sent to Robert F. Tyson, at the Shenandoah Nurseries.

MASSACHUSETTS DATE

August 12 has been set as the date for the summer meeting of the Massachusetts Nurserymen's Association. The program will be held at the establishment of Corliss Bros., Inc., Essex road, Ipswich, Mass.

TEXAS ROSE FESTIVAL

Preparations are under way for the 22nd annual Texas Rose Festival, at Tyler, Tex., scheduled for October 16 to 18. Nearly 30 million bushes put in by 325 growers are planted in Tyler's fields this year.

Queen of this year's festivities is Elizabeth Byars, a student at Tyler junior college, who will make appearances this summer throughout the southwest, officiating at many garden openings, conventions and other spectacles.

Under the direction of Ray Breedlove, Breedlove Nurseries, Tyler, the show this year will be dedicated to

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THE MIGHTY MITICIDE!

DEATH IN NURSERY PREVENTED!

Red mites and many other kinds of mites—murderers of ornamentals, nursery stock and shade trees—are stopped cold by Aramite, the mighty miticide. Aramite is easily applied, compatible with sulfur and many other insecticides and fungicides. **LONG RESIDUAL SAVES COSTS OF ADDITIONAL SPRAYS.** Does not kill natural predators. No field resistance observed in more than 8 years.

Photo courtesy of Musser Forests, Inc.



United States Rubber

Naugatuck Chemical Division

7120A Elm Street, Naugatuck, Connecticut

producers of seed protectants, fungicides, miticides, insecticides, growth retardants, herbicides: Spergon, Phygon, Aramite, Synklor, MH, Alanap, Duraset.

PIERSON QUALITY EVERGREEN LINERS

5-yr., Twice Transplanted	100 rate	1000 rate
<i>Taxus andersoni</i>	\$70.00	\$650.00
<i>Taxus cuspidata</i>	65.00	600.00
<i>Taxus nana erecta</i>	75.00	700.00
<i>Taxus Halloran</i>	65.00	600.00
<i>Taxus hatfieldi</i>	75.00	700.00
<i>Taxus mooni</i>	75.00	700.00
<i>Taxus hicksi</i>	65.00	600.00
<i>Taxus stovekeni</i>	65.00	600.00
<i>Taxus thayerae</i>	65.00	600.00

4-yr., Twice Transplanted		
<i>Taxus andersoni</i>	60.00	550.00
<i>Taxus cuspidata</i>	50.00	450.00
<i>Taxus nana erecta</i>	60.00	550.00
<i>Taxus stovekeni</i>	50.00	450.00
<i>Taxus densiformis</i>	60.00	550.00
<i>Taxus hicksi</i>	50.00	450.00
<i>Taxus browni</i>	60.00	550.00
<i>Taxus thayerae</i>	50.00	450.00
<i>Taxus hatfieldi</i>	60.00	550.00
<i>Taxus Halloran</i>	50.00	450.00

3-yr., Twice Transplanted		
<i>Thuja nigra</i>	45.00	400.00
<i>Thuja boothi</i>	45.00	400.00

2-yr., Twice Transplanted		
<i>Taxus andersoni</i>	30.00	250.00
<i>Taxus stovekeni</i>	30.00	250.00
<i>Taxus cuspidata</i>	30.00	250.00
<i>Taxus hicksi</i>	30.00	250.00
<i>Taxus Halloran</i>	30.00	250.00
<i>Taxus mooni</i>	30.00	250.00

QUANTITY PRICES

On 2-yr., once transplanted, order of 2500 plants or more, \$200.00 per 1000 shall apply.

WRITE FOR LIST OF B&B MATERIAL.

A. N. PIERSON, INC.

Cromwell, Conn.

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BENNETT'S NURSERY

R. D. No. 1,
Homer City, Pa.

Propagators and
Growers

QUALITY
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Special Discount to
Landscapers and Dealers

Write for complete listing,
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past festival queens, whose gowns will be displayed alongside table settings and niches decorated with All-America Rose Selections winners. The show will feature colorful gardens around central fountain areas with mass arrangements of roses.

A feature of interest both to rosarians and amateur gardeners will be the educational display in the greenhouse area, which will demonstrate how roses should be planted, cultivated, fertilized, sprayed, pruned and otherwise cared for and how the soil should be prepared for the rose beds. This exhibit is under the guidance of Dr. E. W. Lyle, pathologist, Texas Rose Research Foundation, Tyler.

Queen's Coronation

Repeated social highlights of the festival include the queen's coronation, presentation of 40 duchesses and ladies-in-waiting in the queen's court and a stage show featuring famous-name talent. The coronation ball will be held October 16, and the festival's parade is scheduled for the next morning. Ample spring and early summer rainfall has grown rosebushes resplendent with blooms to attract thousands of tourists.

Tyler's Municipal Rose Garden, the second largest municipal rose garden in the United States (the largest is at Columbus, O.), will attract many visitors during the festival. On display will be 25,000 rosebushes of 395 varieties. Other attractive displays will be seen at the small but colorful Arp Rose Garden, 305 East Fifth street, and at the A. A. R. S. test garden at the home of L. A. Dean, in Highland Park Acres.

Most of the rose beds at the Tyler Municipal Rose Garden now have concrete borders that add to the formality of the setting. A section in the garden will feature the 1960 A. A. R. S. winners, Fire King, Garden Party and Sarabande. Tree roses planted this year will be a new attraction at the 20-acre garden.

Many of America's leading rosarians are expected to participate in the festival events this year, famous hybridizers from Pennsylvania and California being included.

WISCONSIN DATES

September 3 and 4 are the dates for the summer meeting of the Wisconsin Nurserymen's Association, according to Thomas S. Pinney, Sturgeon Bay, secretary-treasurer of the group. Nepco Lake Nursery, Port Edwards, Wis., will host the group the first day of the meeting, and on

[Continued on page 43]

NEW from FORD

Offset Tractors For Landscapers, Nurserymen

1-ROW CULTIVATING—Here's more versatility, more power, more crop clearance and more wheel tread adjustment than has ever been offered in an offset tractor. Choice of two models with 40" to 86" wheel spacings — Ford Regular Offset Tractor with 19.5" full-width clearance; Ford High Clearance Offset Tractor with 24.5" crop clearance.

BUILT-IN BALANCE—Excellent stability provided by factory installation of 325 lbs. of extra weight to right rear axle. No increase in tractor width. No need to remove for change of wheel spacing.

POWER AND VERSATILITY—Plenty of low-cost power — up to 50% more than other offset tractors. And Ford's famous 3-point hitch and "live" hydraulic system is always ready for multi-purpose work with rear-mounted blades, scoops, discs, scrapers, tiller rakes and other attachments.

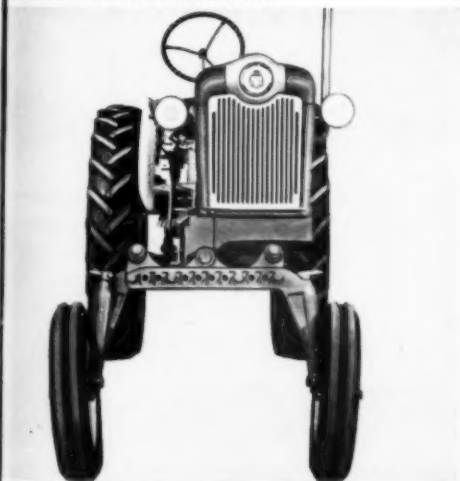
OPERATOR CONVENIENCE—In addition to wide-open work visibility, Ford offers such standard equipment features as Proof-Meter, fuel, oil and temperature gauges, and generator warning light—all read at a glance.

GET FULL DETAILS—These are only highlight features, of course. Get the *full* Ford story from your nearby dealer, or write Industrial Tractor and Equipment Department, Ford Motor Company, Birmingham, Michigan.



FORD REGULAR MODEL 541

FORD HIGH CLEARANCE MODEL 541-4



YOU SEE MORE **FORDS** BECAUSE THEY SAVE MORE MONEY!

Peterson and Dering presents *Opportunities for 1960*

NEW INTRODUCTIONS



"COVER GIRL" (PRR)

Pretty as a picture is this lovely new hybrid tea developed by Gordon J. Von Abrams. "Cover Girl" features long pointed buds, large high-centered blooms of bright orange touched with gold, long stems and glossy foliage.



"CORAL CROWN" (PRR)

Newest descendant of world-famous "Fashion" is this delightful new floribunda in an exciting shade of coral red. Low and compact in growth, "Coral Crown" makes an excellent choice for borders and for a mass color effect. Developed by Gordon J. Von Abrams of P & D Research Laboratories.

EXTRA SERVICES

These are the "extras" provided by Peterson & Dering that make P&D Roses more profitable to handle.

1. Every P&D Rose Bush individually labeled.
2. Every bush top-tied to minimize breakage.
3. All bushes trimmed to your specifications.
4. Free Color Pictures for every variety ordered.
5. Color Folders and Color Plate available at cost.
6. P&D Roses have pliable fibrous root systems and short shanks—easier to pot without damage.
7. Fresher stock—pool car shipments moved at 33° in mechanically refrigerated cars.

NATIONAL ADVERTISING



Peterson & Dering advertising and nation-wide publicity appear in the leading national flower magazines and newspaper garden pages throughout the selling season.

BETTER STOCK



P&D's "Super Strain" Multiflora Root—result of 20 years' development—is your assurance of hardier plants, more vigorous growth, more abundant blooms—and more happy customers.

Oregon's best source of good roses

"THE FINEST ANYWHERE"



PETERSON
INTROD

These leading rose nurseries can supply you with P & D patented varieties

As the demand for P&D Roses continues to increase each year, more and more nurseries are being licensed to grow them for you. If your dealer isn't on this list, you may order direct from Peterson & Dering, Scappoose, Ore.

Allgood Rose Nursery, Dallas, Texas
Arp Nursery, Tyler, Texas
Bosley Nursery, Mentor, Ohio
C. R. Burr & Co., Manchester, Conn.
Carlton Nursery, Forest Grove, Ore.
Consolidated Nursery, Tyler, Texas
Co-Operative Rose Growers, Tyler, Texas
H. M. Eddie & Son, Vancouver, B. C.
Elmer Roses, San Gabriel, California
Greening Nursery, Monroe, Michigan
Howard Rose Co., Hemet, California
Ilgenfritz Nursery, Monroe, Michigan
Gerard K. Klyn, Mentor, Ohio
Lone Star Rose Nursery, Tyler, Texas
Moorestown Gardens, Moorestown, N. J.

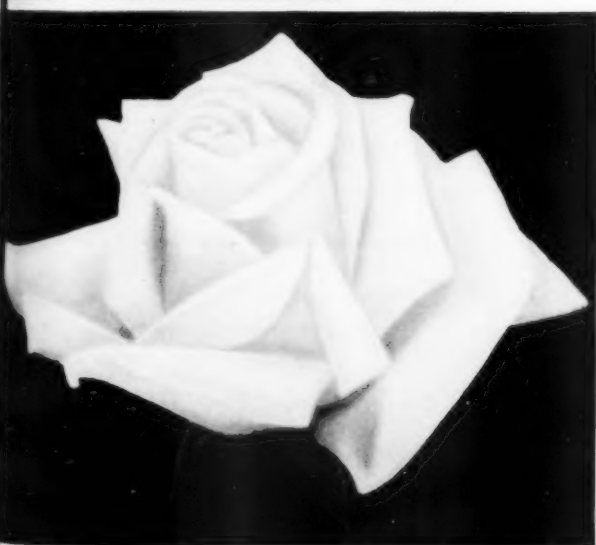
Mount Arbor Nursery, Shenandoah, Iowa
Mount Hood Nursery, Gresham, Oregon
Paramount Nursery, West Grove, Pa.
River Ranch Nursery, Wilsonville, Oregon
Roscroft Nurseries, Langley, B. C.
Roseway Nursery, Beaverton, Oregon
Ruehl-Wheeler, San Jose, California
Shenandoah Nursery, Shenandoah, Iowa
Somerset Rose Nursery, New Brunswick, N. J.
Stacking Nursery, San Jose, California
Thomasville Nursery, Thomasville, Ga.
Van Hevelingen Nursery, Portland, Oregon
Week's Wholesale, Ontario, California
Wyant Rose Nursery, Mentor, Ohio



One of the Highest Rated Pink Hybrid Teas

PINK FAVORITE

The raves continue to pour in for this lovely rose. A famous grower has predicted it will become one of the all-time greats. At show after show it has been in the winner's circle, winning sweepstakes, gold medals and blue ribbons. This early picture doesn't do justice to its huge pink blooms and glossy disease-resistant foliage. Hybridized by P&D's researcher, Gordon J. Von Abrams. Pl. Patent 1523.



PETERSON & DERING
INTRODUCTION

BURNABY—Highly-rated light yellow tea. Another P&D Introduction. Winner of Sweepstakes and Gold Ribbon awards and Gold Medals in U. S. and Europe. Prized for its abundance of non-fading blooms. Pl. Patent 1522.

PETERSON & DERING
INTRODUCTION

OREGON CENTENNIAL—"Our Rose of the Year." Named to commemorate Oregon's 1959 Centennial Exposition, highly publicized and in demand for its classic blooms of rich carmine red. Pl. Patent Applied For.



America's Finest ROSES

See Hugh Mills at the
A. A. N. Convention or
Write for Illustrated List



Happiness



Montezuma

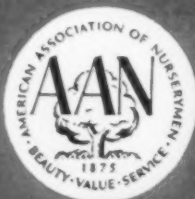
We cordially invite you to visit our nurseries
at Tyler, Texas, and Phoenix, Arizona

Growers of leading popular
and patented varieties

CARL SHAMBURGER NURSERY

FOUR GENERATIONS OF GROWING AMERICA'S FINEST

TYLER, TEXAS



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the second day, the nurserymen will be guests of the Leland Jens Nursery & Landscape Co., Wisconsin Rapids, an adjoining city.

WEED CONTROL MEETING

The executive committee of the Northeastern Weed Control Conference recently met at New York city to plan the group's 14th annual meeting, which will be held January 6 to 8, 1960, at the Hotel New Yorker, New York.

The program for the meeting will open with a session on topics of general interest in weed control. Also scheduled are five concurrent meetings for the following sections: Agronomic crops; aquatics, conservation and forestry; horticultural crops; industrial and highways, and public health. Leading authorities will present research results in weed control at these various section meetings.

SET CHICAGO SHOW DATE

Chicago will provide the middle west with a second world flower and garden show next year, it has been announced by the Chicago Horticultural Society, sponsor of the event. Scheduled for March 19 to 27, 1960, the show will again occupy the International Amphitheatre, at 43rd and South Halsted streets. It will also exclusively feature flowers and gardens staged by leading nurserymen and florists and present the largest representation of flower arrangements and table settings ever included in a flower show in this country.

A large group of special flower societies and other horticultural agencies have already agreed to serve as co-sponsors of the show, and many will have decorative and informational booths. Similarly, a number of large Chicago corporations will sponsor beautiful gardens among the exhibits as a public indication of their support of this cultural event.

Leading plantmen and manufacturers and distributors of garden equipment and supplies are reported to be requesting greater space than was used last year for commercial booths and exhibits.

KENT MCCLAIN, a leader in the Norwood community near Knoxville, Tenn., and operator of Kent McClain Garden Center & Nursery, is also a principal figure in Kent McClain Enterprises, Inc., which is developing a 28-acre site for a \$4,000,000 shopping center that will reach completion in 1962.



LILAC SPRING DAWN (P.R.R.)

SPRING DAWN (P.R.R.) is our new Lilac introduction for 1960. It features unique coloring, free flowering and large compound spikes.

Buds are soft pink and rose, opening to single flowers of soft blue, measuring one inch and larger in diameter. Broad petals curl inward slightly at the outer edges.

For further details, see Walter C. Borchers or Raymond J. Burr at the A. A. N. Convention or write for a copy of our new illustrated wholesale catalog.



Phone: CYPRESS 3-8171

P. O. Box 343, San Jose 3, Calif.

Nurserymen and Breeders of Woody Flowering Plants

WHAT YOU SHOULD KNOW ABOUT THE WILLIS NURSERY CO.

We are a wholesale firm, selling to the trade only and now in our 88th year of operation.

Nearly all of the nursery stock we sell is our own production in our 500-acre nurseries at Ottawa, Kan.

We maintain one of the largest and most complete propagation plants in the middle west.

Our products go into every state of the nation.

The assortment we offer is one of the most complete in the country and includes:

EVERGREENS

BROAD-LEAVED EVERGREENS

SHADE TREES

FLOWERING TREES

SHRUBS

VINES

GROUND COVERS

HEDGE PLANTS

FRUIT TREES

FALL BULBS (Imported)

LINING-OUT STOCK

EVERGREEN GRAFTS

CONTAINER STOCK

PEONIES

You are cordially invited to visit us. We are located only 60 miles southwest of Kansas City, on U. S. Highways 50 and 59.

Write for wholesale price lists. Use letterhead.

View showing part of our evergreens.



WILLIS NURSERY CO.

"Your Wholesale Salesmen"
Ottawa, Kan.

Landscape Materials Service Meeting

By Margaret Herbst

The fourth annual meeting of the Landscape Materials Information Service was attended by more than 120 persons Monday, June 15, braving 45-mile-an-hour winds at Gilgo beach, L. I., N. Y. The committee in charge included Hewlett W. Lewis, Lewis & Valentine, Greenvale, chairman, assisted by Robert Gettinger, Country Gardens, Huntington; Peter Costich, Hicks' Nurseries, Westbury, and Erwin Clark, Grant Park Construction, Lynbrook.

Registration began in the morning at Gilgo pavilion. A few hardy souls went swimming or participated in other available sports. A lobster dinner was served at 2 p. m., followed by a short program as arranged by the hosts, the Long Island members of L. M. I. S. and the committee.

Special guest for the day was Nelson M. Wells, recently retired head of the landscape bureau, department of public works, Albany, N. Y. Mr. Wells spoke briefly, tracing the development of landscape work along the highways. He considered the work of L. M. I. S. most challenging.

Other guests were introduced, including Edwin F. Kirk, newly appointed executive secretary of the New York State Nurserymen's Association.

Long Island Data

The principal speaker at the meeting was Walter S. Tuttle, general park superintendent, Long Island state park commission, Babylon. He talked about the area, from its early days in the time of Henry Hudson to its present state of ever-increasing population. The building of the causeway marked the beginning of the park system's program of recreation. At present, there are 125 miles of parkways, with a widened ocean highway.

Mr. Tuttle traced the development of the landscape work on park-

40,000 DOGWOOD

We collect our own dogwood seeds from the largest-flowering trees. Buy northern-grown dogwood — compact, sturdy, full trees with single or multiple stems.

Cornus florida

	Each
3 to 4 ft., B.R.	\$ 1.00
3 to 4 ft., B&B	1.50
4 to 5 ft., B.R.	2.00
4 to 5 ft., B&B	2.50
5 to 6 ft., B&B	3.50
5 to 6 ft., very heavy	5.00
6 to 7 ft., B&B, very heavy	7.50
7 to 8 ft., B&B, very heavy	10.00
8 to 10 ft., B&B, very heavy	15.00
10 to 12 ft., B&B, very heavy	20.00

Cornus florida rubra

4 ft., headed, B&B.	5.00
5 ft., headed, B&B.	6.50
6 ft., headed, B&B.	8.00
7 to 8 ft., headed, B&B.	15.00
8 to 10 ft., headed, B&B, heavy	25.00

Cornus florida plena

(Double White Dogwood)

6 ft., B&B, heavy	10.00
6 to 8 ft., specimen	15.00

Cornus kousa

4 to 5 ft., B&B.	5.50
5 to 6 ft., B&B.	7.50
6 to 8 ft., B&B.	10.00
8 to 10 ft., B&B, heavy	15.00

BAIER LUSTGARTEN

Jericho Turnpike, Middle Island, L. I., N. Y.

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Long Island's Largest Nurseries

WRITE FOR CATALOG

SOMETHING NEW!!

Machine-Packaged Nursery Stock Ideal for Garden Center Sales

Hundreds of enthusiastic customers have built up their sales with Greening's eye-catching package. Let's talk it over at the convention, or write us for details.

Write us for quotations on ornamentals, pedigreed fruit trees and Western-grown roses.

GREENING NURSERY CO.

MONROE, MICH.

Phone: CHerry 1-8880

ways and parks on the island. At first, only native materials were used on parkways; now they are more ornamental. Southern State parkway is at present under reconstruction, and there is a great problem in the removal of large trees. Great disturbance has resulted in some areas, due to insufficient topsoil and other factors. Grasses must be planted that are adaptable to drought conditions. Good turf is not always possible, especially with highway conditions.

Mr. Tuttle also mentioned the problems of shrub and tree maintenance due to an insufficient labor force. Sand had to be pumped into beach areas. Even goldenrod was planted among wild asters for added interest. Efforts to locate sources of beach grass have so far been unsuccessful.

Wind and salt spray are hard on vegetation. Things must be planted in small sizes, such as seedlings of black pine. The mortality is great, but the cost small. When bayberry in large sizes was planted for immediate effect, it proved to be a great mistake.

The talk was concluded with a reference to the misrepresentation of ailanthus in newspaper ads. Many new home gardener calls were reported. Valteau Curtis, Callicoon, N. Y., also called attention to the 20 representatives sent by the Sterling Forest Peat Humus Co.

The Landscape Materials Information Service, with headquarters at Callicoon, N. Y., is a nonprofit organization, serving as a clearinghouse for producers and volume consumers of landscape material. It dispenses information to architectural and engineering firms with landscape departments, to landscape contractors, nurserymen, public agencies and other suppliers of landscape materials.

NEW location of the Central Michigan Nurseries, Midland, Mich., is 1819 Bay City road. The nurseries' garden center will remain at the firm's old location, 310 East Meadowbrook, but most business will be conducted at the firm's new site.

STARTING the Riverview Nursery at Logansport, Ind., are Robert Smith and Donald H. Witmyer. The firm's address is 4628 High Street road.

DAMAGED by fire recently was the Five Points Nursery, Garden City, Kan. Losses, which included both plants and buildings, were estimated at \$10,000.

500,000

JAPANESE BLACK PINE

(PINUS THUNBERGI)

We get our seed direct from northern Japan, where centuries of growing on wind-swept shores have given these trees their tendency to be short, full, compact and a beautiful dark green.

	Per 1000
1-yr., S., 3 to 5 ins.	\$ 30.00
2-yr., S., 5 to 6 ins.	50.00
2-yr., S., 6 to 10 ins.	75.00
3-yr., S., 10 to 15 ins.	100.00
3-yr., S., 15 to 24 ins.	150.00
3-yr., T., 12 to 18 ins.	250.00
4-yr., T., 18 to 24 ins., full	500.00
5-yr., T., 24 to 30 ins., full	1000.00
	Each
2 to 3 ft., B&B	\$ 4.00
3 to 4 ft., B&B, wide	7.50
4 to 5 ft., B&B, wide	10.00
5 to 6 ft., B&B, wide	12.50
6 to 8 ft., heavy	20.00

Pinus mughus, limited supply

18 to 24 ins.	3.00
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Pinus strobus, nursery-grown

3 to 4 ft., B&B, sheared	4.00
4 to 5 ft., B&B, sheared	5.00
5 to 6 ft., B&B, sheared	7.50
6 to 7 ft., B&B, sheared	10.00
7 to 8 ft., full, B&B, sheared	15.00
8 to 10 ft., full, B&B, sheared	20.00

Pinus sylvestris

3 to 4 ft., full, B&B, sheared	6.50
4 to 5 ft., full, B&B, sheared	10.00
5 to 6 ft., full, B&B, sheared	12.50
6 to 8 ft., full, B&B, sheared	20.00

Pinus nigra

2 to 3 ft., sheared	4.00
3 to 4 ft., sheared	6.50
4 to 5 ft., sheared	10.00

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Long Island's Largest Nurseries

WRITE FOR CATALOG



CHARLIE CHESTNUT

CORRESPONDENCE FROM FLORIDA



Emil is in Florida where he went just after we burnt up Doc Hart's trailer. I didnt hear anything for ten days, when the letters started coming almost every day. I saved all his letters which came more or less in the following order. The members can see he is having himself quite a time. Here are the letters without any comment from me. Any of the members which is going to Florida is welcome to make what they can out of it.

Dear Chas: Well Chas., here I am in Florida and was I lucky. I was going on right good except for some tire trouble when I heard a commotion under the hood of the car. It sounded like somebody beating on a dishpan. I knew what it was right away as the same thing happened on that trip we made over to Kankakee two years ago. I pulled off the road and there I was right smack dab in front of the Sundown Trailer court, so I limped into the park and looked up the head man. This is a park with about 60 trailers and about 2 miles from town. There was a trailer here that belonged to a man from Peoria that went away owing six months rent. It hadnt been lived in for four years and it was a little musty. But we aired it out and chased out a nest of mice and moved in. We rented it for as long as it takes to fix my car. Its a good thing we brought a frying pan and some quilts as there aint too much furniture in it. I cant get out of the park until I get the car fixed. Now listen Chas., in the corn crib at the far end there is a connecting rod hanging on the rafters. Send it down right away. Yesterday I had a visitor from home. It was John Tarpley that runs the monument works on the Lake Park road next to the cemetery. He staid for supper and slept in his car. I didnt know him, but he claims he knew me and he has been at the nursery and bought a privet hedge five or six years ago. Its funny how they know I'm here. I'll write again soon. Don't forget the connecting rod right away as I am hung up here. Yours, Emil.

Dear Chas: Who in the world do you suppose called yesterday. It was old Frank from Otter Creek. John Bushbottom told him I was here.

Frank had his cane poles roped on the side of his car. So last night we went fishing on the Manatee river.

I always heard that fishing was free in Florida, but in fresh water you got to have a license. The game warden was going to run us in, when he found out that me and Frank was past 65, so we got off. We caught a mess of small fish, but when we got back to the park everybody told us they was Pin fish, so full of sharp bones they wasnt fit to eat. I buried them under the trailer. This morning the coons had dug them up again. I wish I had brought my 12 guage. Frank is staying with us in the trailer. He brought an army cot. Frank just unbuttons his collar button and takes off his shoes and he is set for the night. This morning he was up at 4:30 smoking his pipe. He may stay a week or so. He chipped in on the groceries. It aint

too bad when you have visitors like old Frank. Yours, Emil.

Dear Chas: The connecting rod came today and me and Frank worked all day on the Chevvy. They wanted \$28.00 to fix it here, but me and Frank got it all together and all I am out is my time, whatever that is worth, which aint nothing at all here. It was a good thing Frank had a whole set of tools with him. Me and Frank went out to a dairy farm yesterday. Frank wants me to go in with him to start a dairy here. Frank wants to have goats. We can buy the ranch, house, stock and all for \$1500.00 and Frank says he will take my note for half if I want to go in with him. What do you think? Emma aint in favor of it and threatened to take the train home if I decide to buy in the deal. I'll let you know what I do. Yours, Emil.

Dear Chas: We aint going to buy the dairy farm after all. He had only

COMPLETE LINE OF NURSERY STOCK

**We Have a Good Stock of
Well-Grown, First-Class**

BUNTING QUALITY NURSERY STOCK

— Including —

Fruit Trees • Small Fruit Plants
Asparagus • Shade and Ornamentals
Flowering Shrubs • Roses
Evergreens • Hedge, etc.

Strawberry Plants a Specialty

We invite your inspection.

BUNTINGS' NURSERIES, INC.

Shelbyville, Delaware

SHADE TREES

	Each		Each
10,000 Platanus acerifolia		Acer dasycarpum	
(London Plane) Straight trunks, branched 6 ft. from ground.		6 to 7 ft., B. R.	\$ 1.50
1 to 1/4-in. cal., B. R.	\$ 4.00	1 to 1 1/4-in. cal., B. R.	2.50
1 1/4 to 1 1/2-in. cal., B. R.	5.50	1 1/4 to 2-in. cal., B. R.	4.00
1 1/2 to 1 3/4-in. cal., B. R.	6.50	2 to 2 1/2-in. cal., B. R.	7.50
1 3/4 to 2-in. cal., B. R.	10.00	2 1/2 to 3-in. cal., B. R.	10.00
2 to 2 1/2-in. cal., B. R.	12.50	3 to 4-in. cal., B. R.	20.00
2 1/2 to 3-in. cal., B. R.	15.00	Acer rubrum	
3 to 3 1/2-in. cal., B. R.	19.00	1 1/2 to 2-in. cal., B. R.	10.00
Call about B&B prices.		2 to 3-in. cal., B. R.	15.00
Acer platanoides		Acer palmatum atropurpureum	
1 1/4 to 1 1/2-in. cal., B. R.	5.00	(Blood-red Japanese Maple), cutting-grown	
1 1/2 to 1 3/4-in. cal., B. R.	6.50	12 to 15 ins., B&B.	2.50
1 3/4 to 2-in. cal., B. R.	9.00	3 ft., B&B, full.	6.00
2 to 2 1/2-in. cal., B. R.	11.00	3 to 3 1/2 ft., B&B, full.	7.50
2 1/2 to 3-in. cal., B. R.	15.00	3 1/2 to 4 ft., B&B, full.	10.00
3 to 4-in. cal., B. R.	25.00	Few 5 to 6 ft., 6 to 7 ft., 7 to 8 ft. Prices on request.	
4 to 5-in. cal., B&B, platform	50.00	Aesculus brioti	
5 to 6-in. cal., B&B, platform	75.00	4 to 5 ft., B&B, br., full.	10.00
6 to 7-in. cal., B&B, platform	100.00	5 to 6 ft., B&B, br., full.	12.50
Acer saccharum		6 to 8 ft., B&B, br., full.	15.00
1 1/2 to 2-in. cal., B. R.	10.00		
2 to 3-in. cal., B. R.	15.00		

We also have following trees in various sizes—some as large as 6 ins.

Tilia cordata
Tilia americana
Tilia platyphyllos
Cercis canadensis
Catalpa speciosa
Crimson King Maple
Schwedler Maple
Ginkgo biloba

Fraxinus americana
Koelreuteria paniculata
Liquidambar styraciflua
Liriodendron tulipifera
Populus nigra italica
Quercus palustris
Salix babylonica
Salix Niobe

BAIER LUSTGARTEN

Jericho Turnpike, Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

Long Island's Largest Nurseries

WRITE FOR CATALOG



Millions and
Millions of Pots
ago as now...

THE BIG NEWS IN
BIGGER PROFITS...

Cloverset POTS

More than 20 years ago, nurserymen were introduced to a new wrinkle in plant containers—the Cloverset pot. It was a low-cost container that made cash-and-carry sales more profitable. It stimulated more sales, because it enabled nurserymen to economically pot stock previously sold bare root and to present it for sale in a more attractive form—alive and growing, yet simple to set out. Millions of Cloverset Pots have been made and used in the last 20-odd years and they still tell the same profitable story. If you've never tried them, order a sample set now.

HERE'S WHY CLOVERSET POTS ARE SUPERIOR TO OTHERS:

1. Lasts a full year or more in the sales frame.
2. Contains roots safely within the soil ball; permits transplanting any time.
3. Has adequate bottom opening for good drainage without water-logging; no gravel necessary.
4. Rests on wide bottom; no blowing over in the frames.
5. Available in sizes to accommodate stock of any salable size.
6. Is neat and uniform in appearance, an asset to the sales area.
7. Tough enough to permit easy handling in potting shed and frame.
8. Easy for customers to remove—at once, a week later or even a month after they take stock home.
9. Lightweight (but with all these qualities) to save on freight costs.
10. . . . and sufficiently low priced so that it may be given away with the plant.

SIZES FOR EVERY NEED

Roses, Perennials, Shrubs and Young Trees

Size	Height	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT Per 1000	F.O.B. Kansas City		Cloverset Pot Prices
						Per 100	Per 1000	
No. 0	5½ ins.	5 ins.	6 ins.	200	210 lbs.	\$4.25	\$40.00	F.O.B. Kansas City.
No. 1	6½ ins.	6 ins.	7 ins.	100	340 lbs.	5.25	50.00	
No. 2	9½ ins.	7 ins.	8 ins.	100	535 lbs.	5.75	55.00	
No. 3	9 ins.	8 ins.	9 ins.	100	690 lbs.	6.25	60.00	
						25 pots, \$7.70; 50 pots, \$14.60; 75, \$21.75; 100, \$26.15; 1000, \$231.00.		
No. 4	13 ins.	12 ins.	....	25	Per 100 133 lbs.			

Send in the Handy Coupon
for a Sample Set of
Cloverset Pots

Cloverset Farm
10550 Wornall Rd., Kansas City, Mo.

CLOVERSET FARM, DEPT. AN 79
10550 Wornall Rd.,
Kansas City 14, Mo.

- ☐ I enclose 50c; please send me a sample set of Cloverset Pots (limit, one set).
- ☐ Please send me information on Cloverset Pots and Cloverset Rose and Garden Dust.

Name

Firm

Address

City..... Zone... State....

4 cows and they all had foot rot. We was out there after a rain and half the place was under water. Good thing it rained, otherwise I might be half owner of a swamp. Frank is still looking around. One thing I found looking around the ranch under an old shed was an old touring car. It was a 1914 Saxon. I give him \$20.00 for it and now I got to figure out how to get it home. There aint no tires and the upholstery is in shreds. Frank says I am crazier than he thought. I aint told Emma yet. Yours, Emil.

Dear Chas: Who in the world do you think I run onto yesterday in a cafeteria where Frank took me and Emma for supper. Mr. and Mrs. Morse from the bank at home. I asked him what he thought of getting into the dairy business here. It surprised me he was in favor of it. Remember that gent that was killed on the Main St. crossing at home a year ago. Well Morse is the executor of the estate and he is down here on an expense account trying to sell a ranch. Me and Frank might buy it if Morse aint too wild in price. Yours, Emil. P. S. We seen Morse this morning and the deal is off. He wants \$60,000.00 for the layout.

Dear Chas: I aint wrote for the last week. I been laid up with a lame back since last Tuesday. Me and Emma went to a square dance here in the park, which was a big mistake. I got a stiff knee and a lame back. Well, old Frank has pushed off south, he says he might be back after he looks over the farms for sale down the line. He hadnt no more than got out of sight down the road when in come Olson, the contractor from home. He heard I was in the park. I never done any business with him as he always bought his stuff from the chain stores, but to hear him talk he was old buddies with me. He brought 6 cans of beer and spent the evening. I might have him build me a new house, he made me a good proposition. So long, Emil.

Dear Chas: Last friday I went out to the Coco Palm nursery. I never seen so many cans in my life. There is beer cans, tomato cans and on up to oil drums. They put the stuff in cans in the fall and by now the cans is rusted thru and the roots sticking out and growing in the ground. They load stuff in your car with a shovel. I told him I was a honeysuckle expert from up north, but he never heard of honeysuckle. He was long on Bloolu trees and Bahamas, which I never heard of either, so we called it a draw. He

[Continued on page 54]

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage, over 200,000 for fall and spring delivery. All B&B.

	Each		Each		Each
Amoena		Maxwelli		Favorite	
8 ins.	\$0.75	8 ins.	\$0.75	8 ins.	\$0.75
10 ins.	1.00	10 ins.	1.00	10 ins.	1.00
12 ins.	1.25	12 ins.	1.25	12 ins.	1.25
15 ins.	2.00	15 ins.	2.00	15 ins.	2.00
18 ins.	2.50	18 ins.	2.50	18 ins.	2.50
Coral Bells		Louise Gable		Polaris	
8 ins. ....	.75	8 ins.	1.00	8 ins. ....	.75
10 ins.	1.00	10 ins.	1.25	10 ins.	1.00
12 ins.	1.25	12 ins.	1.50	12 ins.	1.25
15 ins.	2.00	15 ins.	2.50	15 ins.	2.00
Hinodegiri		Rose Bud		Beethoven	
Our Hinos are very dark red.		8 ins.	1.00	8 ins. ....	.75
8 ins. ....	.75	10 ins.	1.25	10 ins.	1.00
10 ins.	1.00	12 ins.	1.50	12 ins.	1.25
12 ins.	1.25	15 ins.	2.50	15 ins.	2.00
15 ins.	2.00	18 ins.	3.50	18 ins.	2.50
18 ins.	2.50	24 ins.	6.50	20 ins.	3.50
20 ins.	3.50	Rose Greely		Johann Strauss	
24 ins.	5.00	8 ins.	1.00	8 ins. ....	.75
30 ins.	6.00	10 ins.	1.25	10 ins.	1.00
36 ins.	7.50	12 ins.	1.50	12 ins.	1.25
Orange Beauty, Kurume		15 ins.	2.50	15 ins.	2.00
8 ins. ....	.75	18 ins.	3.50	18 ins.	2.50
10 ins.	1.00	24 ins.	6.50	20 ins.	3.50
12 ins.	1.25	Addy Wery		Lilacina	
15 ins.	2.00	8 ins.	1.00	8 ins. ....	.75
18 ins.	2.50	10 ins.	1.25	10 ins.	1.00
Hino-Crimson		12 ins.	1.50	12 ins.	1.25
8 ins. ....	.75	15 ins.	2.50	15 ins.	2.00
10 ins.	1.00	18 ins.	3.50	18 ins.	2.50
12 ins.	1.25	Apple Blossom, Kurume		20 ins.	3.50
15 ins.	2.00	8 ins. ....	.75	24 ins.	5.00
18 ins.	2.50	10 ins.	1.00	Kaempferi	
Snow		12 ins.	1.25	Hardest of all azaleas; sheared,	
8 ins. ....	.75	15 ins.	2.00	well-budded, heavy.	
10 ins.	1.00	18 ins.	2.50	Othello, Salmon Beauty, Fedora and	
12 ins.	1.25	20 ins.	3.50	Carmen	
15 ins.	2.00	24 ins.	5.00	8 ins. ....	.75
Ledifolia Alba		Daybreak, Kurume		10 ins.	1.00
8 ins. ....	.75	8 ins. ....	.75	12 ins.	1.25
10 ins.	1.00	10 ins.	1.00	15 ins.	2.00
12 ins.	1.25	12 ins.	1.25	18 ins.	2.50
15 ins.	2.00	15 ins.	2.00	20 ins.	3.50
18 ins.	2.50	18 ins.	2.50	24 ins.	5.00
20 ins.	3.50	20 ins.	3.50	30 ins.	6.00
24 ins.	5.00			36 ins.	7.50

Rooted cuttings of all above varieties ready November 1. \$50.00 per 1000.

1-yr., T., \$125.00 per 1000.

Our azalea beds are treated for shipment outside Japanese Beetle zone.

BAIER LUSTGARTEN

Jericho Turnpike, Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

Long Island's Largest Nurseries

WRITE FOR CATALOG

CHOICE LINERS

FALL, 1959 — SPRING, 1960

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
1800 <i>Abies concolor</i> , 3-yr., T.	\$.20	...	1200 <i>Hypericum aureum</i> , 2-yr., S., 9 to 12 ins.	\$.12	\$.10
800 <i>Acer palmatum atropurpureum</i> , 1-yr., grafts ..	.90	...	2000 <i>Hypericum Hidcote</i> , 2 1/4-in. pots .....	.20	.18
1000 <i>Acer palmatum atropurpureum</i> , 2-yr., grafts ..	1.25	...	4000 <i>Ilex verticillata</i> , 1-yr., S. ....	.08	.07 1/2
600 <i>Acer platanoides</i> , 1-yr., whips, 5 to 6 ft.	1.25	...	2500 <i>Ilex verticillata</i> , 2-yr., S. ....	.10	.09
900 <i>Aralia pentaphylla</i> , 2-yr., T., 6 to 9 ins. ....	.18	...	1000 <i>Juniperus excelsa stricta</i> , 4-yr., TT. ....	.50	.40
4000 <i>Aronia arbutifolia</i> , 1-yr., S. ....	.15	.12 1/2	2000 <i>Juniperus glauca hetzi</i> , 1-yr., T. ....	.25	.20
4000 <i>Azalea mollis</i> , 2-yr., S., 6 to 9 ins. ....	.20	.18	1500 2-yr., T. ....	.35	...
2000 <i>Berberis Crimson Pigmy</i> , 2 1/4-in. pots .....	.25	.22 1/2	2000 4-yr., TT. ....	.55	.45
10,000 <i>Berberis thunbergii</i> , 2-yr., S., 6 to 9 ins. ....	.05	.04	2000 <i>Juniperus pfitzeriana</i> , 1-yr., T. ....	.25	.20
15,000 <i>Berberis thunbergii</i> , 2-yr., S., 9 to 12 ins. ....	.06	.05	2500 <i>Juniperus pfitzeriana</i> , 2-yr., T. ....	.35	...
15,000 <i>Berberis thunbergii atropurpurea</i> , 2-yr., S., 6 to 9 ins. ....	.05	.04	2500 <i>Juniperus pfitzeriana</i> , 4-yr., TT. ....	.55	.45
12,000 <i>Berberis thunbergii atropurpurea</i> , 2-yr., S., 9 to 12 ins. ....	.06	.05	500 <i>Kerria japonica</i> , 2-yr., T., 6 to 9 ins. ....	.18	...
4000 <i>Celastrus scandens</i> , 1-yr., S. ....	.10	.09	1400 <i>Leucothoe catesbaei</i> , 2-yr., T. ....	.35	...
5000 <i>Cercis chinensis</i> , 1-yr., S. ....	.09	.08	4000 <i>Ligustrum ibota</i> , 2-yr., S., 9 to 12 ins. ....	.09	.07
1000 <i>Chamaecyparis plumosa aurea</i> , 2-yr., T. ....	.25	...	5000 <i>Ligustrum ibota</i> , 2-yr., S., 12 to 15 ins. ....	.12	.10
800 <i>Chamaecyparis plumosa Gold Dust</i> , 2-yr., T. ....	.25	...	8000 <i>Lonicera Clavey's Dwarf</i> , 1-yr., H.W.C. ....	.12	.10
1600 <i>Chionanthus virginicus</i> , 1-yr., S., 6 to 9 ins. ....	.15	.12 1/2	1600 <i>Lonicera korolkowi</i> , 2-yr., T., 6 to 9 ins. ....	.10	.09
2000 <i>Chionanthus virginicus</i> , 1-yr., S., 9 to 12 ins. ....	.18	.16	2500 <i>Lonicera tatarica rosea</i> , 2-yr., T., 6 to 9 ins. ....	.12	.10
8000 <i>Clematis paniculata</i> , 2-yr., T. ....	.25	.20	2000 <i>Lonicera zabeli</i> , 1-yr., H.W.C. ....	.12	.10
6000 <i>Cornus alternifolia</i> , 1-yr., S. ....	.10	.09	9000 <i>Magnolia kobus</i> , 1-yr., S. ....	.12	.10
900 <i>Cornus alba sibirica</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	500 <i>Magnolia rustica rubra</i> , 1-yr., T., 12 to 18 ins. ....	.75	...
2000 <i>Cornus amomum</i> , 2-yr., S., 9 to 12 ins. ....	.10	.09	500 <i>Magnolia soulangeana</i> , 1-yr., T., 12 to 18 ins. ....	.75	...
10,000 <i>Cornus florida</i> , 1-yr., S. ....	.06	.05	2500 <i>Mahonia aquifolium</i> , 1-yr., S., 4 to 6 ins. ....	.15	.12
15,000 <i>Cornus florida</i> , selected understocks ....	.08 1/2	.07 1/2	3000 <i>Malus</i> , 1-yr., whips, 2 to 3 ft. ....	.50	...
10,000 <i>Cornus mascula</i> , 1-yr., S. ....	.10	.09	Varieties: <i>Almey</i> , <i>atrosanguinea</i> , <i>eleyi</i> , <i>Hopa</i> , <i>Red Silver</i> , <i>Van Eseltine</i> .....	...	...
1700 <i>Cornus mascula</i> , 2-yr., T. ....	.18	.15	5000 <i>Myrica cerifera</i> , 1-yr., S. ....	.09	.08
1800 <i>Cornus paniculata (Racemosa)</i> , 1-yr., S. ....	.09	.08	3000 <i>Myrica cerifera</i> , 2-yr., S. ....	.10	.09
1500 2-yr., S., 9 to 12 ins. ....	.12	.10	5000 <i>Myrica heterophylla</i> , 1-yr., S. ....	.09	.08
1000 2-yr., S., 12 to 15 ins. ....	.15	.12	7000 <i>Myrica pensylvanica</i> , 1-yr., S. ....	.09	.08
400 <i>Corylus americana</i> , 1-yr., S., 6 to 9 ins. ....	.15	...	1500 <i>Philadelphus lemoinei</i> , 2-yr., T., 6 to 9 ins. ....	.12	.10
10,000 <i>Cotoneaster acutifolia</i> , 1-yr., S. ....	.09	.08	1000 <i>Photinia villosa</i> , 1-yr., S., 6 to 9 ins. ....	.09	.08
6000 2-yr., S. ....	.10	.09	1000 <i>Physocarpus monogynus</i> , 2-yr., T., 6 to 9 ins. ....	.12	.10
2200 2-yr., T. ....	.18	.15	4000 <i>Picea excelsa</i> , 3-yr., T. ....	.12	.10
5000 <i>Cotoneaster divaricata</i> , 1-yr., S. ....	.09	.08	6000 <i>Picea excelsa</i> , transplanted understocks .....	.10	...
7000 <i>Cotoneaster divaricata</i> , 2-yr., S. ....	.10	.09	1000 <i>Picea moerheimi</i> , 1-yr., grafts	1.25	...
1000 <i>Cornus florida</i> , 2-yr., S., 2 to 3 ft., whips ..	.25	...	8000 <i>Picea pungens</i> , 3-yr., T. ....	.15	.12
1500 2-yr., S., 3 to 4 ft., whips .....	.35	...	6000 <i>Picea pungens</i> , 4-yr., T., 6 to 9 ins. ....	.18	.15
1000 3-yr., T., 2 to 3 ft. ....	.75	...	1000 <i>Pieris floribunda</i> , 2-yr., T. ....	.35	...
500 3-yr., T., 3 to 4 ft.	1.00	...	3000 <i>Pieris japonica</i> , 2-yr., T. ....	.30	.25
1000 <i>Cotoneaster horizontalis</i> , 2 1/4-in. pots .....	.15	.12 1/2	2000 <i>Pinus mughus</i> , 2-yr., S. ....	.15	.12
11,000 <i>Cydonia japonica</i> , 1-yr., S. ....	.05 1/2	.04 1/2	600 <i>Pinus nigra</i> , 4-yr., T. ....	.25	...
1500 <i>Cydonia japonica rubra</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	2000 <i>Pinus nigra (austriaca)</i> , 2-yr., S. ....	.12	.10
4000 <i>Deutzia gracilis</i> , 2-yr., T. ....	.15	.12	2000 3-yr., T. ....	.18	.15
2700 <i>Deutzia lemoinei</i> , 2-yr., T. ....	.12	.10	500 4-yr., T. ....	.25	...
900 <i>Deutzia Pride of Rochester</i> , 2-yr., T., 9 to 12 ins. ....	.12	.10	1500 <i>Prunus glandulosa rosea</i> , 2-yr., T., 6 to 9 ins. ....	.18	.15
400 <i>Elaeagnus angustifolia</i> , 1-yr., S. ....	.12	.10	4000 <i>Pseudotsuga douglasii</i> , 3-yr., T., 4 to 7 ins. ....	.15	.12
2000 <i>Euonymus europaeus</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	9000 4-yr., T., 6 to 8 ins. ....	.20	.18
5000 <i>Euonymus radicans coloratus</i> , 2-yr., T., 9 to 12 ins. ....	.25	.22	2000 2-yr., T. ....	.12	.10
6000 <i>Euonymus radicans vegetus</i> , 2-yr., T., 6 to 9 ins. ....	.35	.30	2300 <i>Rhamnus cathartica</i> , 1-yr., S., 6 to 9 ins. ....	.09	.08
4000 2-yr., T., 9 to 12 ins. ....	.45	.40	1000 2-yr., S., 6 to 9 ins. ....	.10	.09
5000 3-yr., T., 12 to 15 ins. ....	.75	.70	500 2-yr., S., 9 to 12 ins. ....	.12	.10
1200 <i>Euonymus yedoensis</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	8000 <i>Rhodotypos kerrioides</i> , 1-yr., S. ....	.07	.06
1500 <i>Forsythia intermedia</i> , 2-yr., T., 6 to 9 ins. ....	.12	.10	6000 <i>Rhodotypos kerrioides</i> , 2-yr., S. ....	.08	.07 1/2
1000 <i>Forsythia intermedia spectabilis</i> , 2-yr., T., 6 to 9 ins. ....	.12	.10	1000 <i>Ribes alpinum</i> , 2-yr., T., 6 to 9 ins. ....	.15	.12
8000 <i>Forsythia Lynwood Gold</i> , 2-yr., T. ....	.20	.18	9000 <i>Rhus cotinus</i> , 1-yr., S. ....	.09	.08
2000 <i>Forsythia Spring Glory</i> , 2-yr., T. ....	.18	.15	2000 <i>Sophora japonica</i> , 1-yr., S. ....	.15	.12 1/2
1500 <i>Forsythia suspensa</i> , 2-yr., T., 6 to 9 ins. ....	.18	.15	2500 <i>Sophora japonica</i> , 2-yr., S. ....	.18	.15
5000 <i>Hamamelis vernalis</i> , 1-yr., S. ....	.09	.08	500 <i>Sorbus aucuparia</i> , 2-yr., whips, 3 to 4 ft. ....	.50	...
5000 <i>Hamamelis vernalis</i> , 2-yr., S. ....	.10	.09	800 2-yr., whips, 4 to 5 ft. ....	.75	...
900 <i>Hydrangea A. G.</i> , 2-yr., T., 6 to 9 ins. ....	.18	...	400 2-yr., whips, 5 to 6 ft.	1.00	...
800 <i>Hydrangea P. G.</i> , 2-yr., T., 6 to 9 ins. ....	.18	...	2000 <i>Stewartia pseudocamellia</i> , 1-yr., S. ....	.25	.24
			1800 <i>Styrax japonica</i> , 1-yr., S. ....	.15	.12 1/2
			1000 <i>Symplocos paniculata</i> , 1-yr., S. ....	.15	.12 1/2
			1500 <i>Spiraea Anthony Waterer</i> , 2-yr., T., 6 to 9 ins. ....	.15	.12 1/2

500 Spiraea
1200 Spiraea
500 Spiraea
1500 Spiraea

300 Syringa

500 Syringa

1200 Syringa

3000 Taxus

2000 3-yr.

1850 4-yr.

8000 Taxus

1500 3-yr.

1800 4-yr.

1000 5-yr.

2000 Taxus

1250 4-yr.

1000 5-yr.

600 Taxus

800 Taxus

5000 Taxus

3000 2-yr.

3000 3-yr.

3000 4-yr.

2500 5-yr.

1300 6-yr.

800 Taxus

1100 Taxus

2000 Taxus

3000 Taxus

3000 Taxus

1000 3-yr.

1500 4-yr.

1000 5-yr.

3500 Taxus

1000 3-yr.

2000 4-yr.

900 Taxus

3000 Taxus

1000 3-yr.

3000 4-yr.

2000 5-yr.

1000 6-yr.

2500 Taxus

1500 5-yr.

2000 Taxus

1200 Taxus

4000 Taxus

2000 3-yr.

1600 4-yr.

1000 5-yr.

3000 Taxus

1400 3-yr.

1500 4-yr.

1800 5-yr.

1000 6-yr.

3000 Taxus

1500 Taxus

2000 Taxus

2000 Taxus

1000 4-yr.

600 5-yr.

2000 Taxus

1000 Taxus

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E. D.

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XUM

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
500 <i>Spiraea arguta</i> , 2-yr., T., 6 to 9 ins.	\$0.12	\$0.10	2000 <i>Tamarix</i> Pink Cascade (Pat. No. 1275), 1-yr., C.	\$0.25	\$0.20
1200 <i>Spiraea froebeli</i> , 2-yr., T., 6 to 9 ins. ....	.12	.10	5000 <i>Thuja occidentalis</i> , 2-yr., T. ....	.18	.15
500 <i>Spiraea prunifolia</i> , 2-yr., T., 6 to 9 ins. ....	.15	.12 1/2	2000 <i>Thuja occidentalis</i> boothii, 2-yr., T. ....	.30	.25
1500 <i>Symphoricarpos chenaulti</i> , 2-yr., T., 6 to 9 ins. ....	.12	.10	3000 1-yr., T. ....	.25	.20
300 <i>Symphoricarpos racemosus</i> , 2-yr., S., 9 to 12 ins. ....	.10	.09	1200 4-yr., TT. ....	.50	.40
500 <i>Symphoricarpos racemosus</i> , 2-yr., S., 12 to 18 ins. ....	.15	.12	500 <i>Thuja occidentalis</i> compacta, 2-yr., T. ....	.30	.25
9000 <i>Syringa vulgaris</i> , 1-yr., S. ....	.07	.06	700 <i>Thuja occidentalis</i> elegantissima, 2-yr., T. ....	.30	.25
3000 <i>Taxus browni</i> , 2-yr., T. ....	.30	.25	3000 <i>Thuja occidentalis</i> nigra, 2-yr., T. ....	.30	.25
2000 3-yr., T. ....	.40	.37 1/2	8000 <i>Tilia cordata</i> , 1-yr., S. ....	.12	.10
1850 4-yr., TT. ....	.60	.55	3000 <i>Tsuga canadensis</i> , 2-yr., T. ....	.30	.25
6000 <i>Taxus cuspidata</i> , 2-yr., T. ....	.30	.25	2000 <i>Tsuga canadensis</i> , 4-yr., T. ....	.45	.35
1500 3-yr., T. ....	.35	.32 1/2	1000 <i>Tsuga carolinianum</i> , 3-yr., TT. ....	.50	.40
1800 4-yr., TT. ....	.50	.45	2000 <i>Viburnum americanum</i> , 1-yr., S. ....	.12	.10
1000 5-yr., TT. ....	.65	.60	2300 <i>Viburnum americanum</i> , 2-yr., T. ....	.15	.12 1/2
2000 <i>Taxus cuspidata andersoni</i> , 2-yr., T. ....	.30	.25	5000 <i>Viburnum betulifolium</i> , 1-yr., S. ....	.15	.12 1/2
1250 4-yr., TT. ....	.60	.55	3000 <i>Viburnum carlesi</i> , 1-yr., S. ....	.22 1/2	.20
1000 5-yr., TT. ....	.70	.65	8000 <i>Viburnum cassinoides</i> , 1-yr., S. ....	.15	.12 1/2
1000 6-yr., TT. ....	.80	.70	1500 2-yr., S., 6 to 9 ins. ....	.18	.15
600 <i>Taxus cuspidata bakeri</i> , 2-yr., T. ....	.30	.25	500 2-yr., T. ....	.20	.18
800 <i>Taxus cuspidata Barnes</i> , 2-yr., T. ....	.30	.25	10,000 <i>Viburnum dentatum</i> , 1-yr., S. ....	.09	.08
5000 <i>Taxus cuspidata capitata</i> , 2-yr., S. ....	.10	.08	4000 <i>Viburnum dilatatum</i> , 1-yr., S. ....	.09	.08
3000 2-yr., T. ....	.30	.25	5000 <i>Viburnum dilatatum</i> , 2-yr., S. ....	.12	.10
6000 3-yr., T. ....	.40	.37 1/2	5000 <i>Viburnum lantana</i> , 2-yr., S. ....	.15	.12 1/2
3000 4-yr., T. ....	.45	.40	2500 <i>Viburnum lantana</i> , 2-yr., T. ....	.20	.18
2500 5-yr., TT. ....	.80	.70	8000 <i>Viburnum lentago</i> , 1-yr., S. ....	.12	.10
1300 6-yr., TT. ....	.90	.80	5000 <i>Viburnum opulus</i> , 1-yr., S. ....	.12	.10
800 <i>Taxus cuspidata columnaris</i> , 2-yr., T. ....	.30	.25	800 <i>Viburnum molle</i> , 1-yr., S. ....	.10	.09
1100 <i>Taxus cuspidata fastigiata</i> , 2-yr., T. ....	.30	.25	2000 <i>Viburnum opulus nanum</i> , 2-yr., T. ....	.20	.18
2000 <i>Taxus cuspidata nana</i> , 2-yr., T. ....	.30	.25	6000 <i>Viburnum prunifolium</i> , 1-yr., S. ....	.18	.15
2000 <i>Taxus cuspidata nana</i> , 3-yr., T. ....	.40	.35	8000 <i>Viburnum setigerum</i> , 1-yr., S. ....	.15	.12 1/2
3000 <i>Taxus cuspidata thayerae</i> , 2-yr., T. ....	.35	.30	4000 <i>Viburnum setigerum</i> , 2-yr., T. ....	.20	.18
1000 3-yr., T. ....	.35	.30	8000 <i>Viburnum sieboldi</i> , 1-yr., S. ....	.15	.12 1/2
1500 4-yr., TT. ....	.50	.45	600 <i>Viburnum sieboldi</i> , 2-yr., S. ....	.25	.20
1000 5-yr., TT. ....	.65	.60	500 <i>Viburnum tomentosum</i> , 2-yr., T. ....	.20	.18
1500 <i>Taxus densiformis</i> , 2-yr., T. ....	.35	.30	5000 <i>Weigela Bristol Ruby</i> , 1-yr., C. ....	.15	.12 1/2
1000 3-yr., T. ....	.45	.40	800 <i>Weigela Candida</i> , 2-yr., T. ....	.15	.12 1/2
2000 4-yr., TT. ....	.65	.55	2000 <i>Weigela Eva Rathke</i> , 2-yr., T. ....	.15	.12 1/2
900 <i>Taxus intermedia</i> (Spreading), 2-yr., T. ....	.30	.25	5000 <i>Weigela rosea variegata</i> , 2-yr., T. ....	.15	.12 1/2
3000 <i>Taxus media</i> Halloran, 2-yr., T. ....	.30	.25	5000 <i>Weigela vaniceki</i> , 2-yr., T. ....	.15	.12 1/2
2000 3-yr., T. ....	.40	.35			
3000 4-yr., TT. ....	.50	.45			
2000 5-yr., TT. ....	.65	.60			
1000 6-yr., TT. ....	.80	.70			
2500 <i>Taxus media</i> Hatfieldi, 2-yr., T. ....	.30	.25			
2700 4-yr., TT. ....	.60	.55			
1500 5-yr., TT. ....	.75	.70			
2000 <i>Taxus media</i> Henryi, 2-yr., T. ....	.35	.30			
1200 <i>Taxus media</i> Henryi, 3-yr., T. ....	.45	.40			
4000 <i>Taxus media</i> Hicksi, 2-yr., T. ....	.30	.25			
2000 3-yr., T. ....	.35	.32 1/2			
1600 4-yr., TT. ....	.50	.45			
1000 5-yr., TT. ....	.65	.60			
3000 <i>Taxus Moon's columnaris</i> , 2-yr., T. ....	.30	.25			
1400 3-yr., T. ....	.40	.30			
1500 4-yr., TT. ....	.65	.55			
1800 5-yr., TT. ....	.75	.70			
1000 6-yr., TT. ....	.80	.75			
3000 <i>Taxus nana erecta</i> , 4-yr., TT. ....	.30	.25			
1500 <i>Taxus nana erecta</i> , 5-yr., TT. ....	.75	.70			
2000 <i>Taxus sieboldi</i> , 2-yr., T. ....	.30	.25			
2000 <i>Taxus stovekeni</i> , 2-yr., T. ....	.30	.25			
1000 4-yr., TT. ....	.50	.45			
600 5-yr., TT. ....	.65	.60			
2000 <i>Taxus wardi</i> , 2-yr., T. ....	.35	.32 1/2			
1000 <i>Taxus wellerleyana</i> , 2-yr., T. ....	.30	.25			

POT GRAFTS

Pot grafts for shipment after May 1, 1960.

	Each 100 rate
<i>Acer dissectum atropurpureum</i>	\$0.75
<i>Acer palmatum atropurpureum</i> .....	.65
<i>Cedrus atlantica glauca</i> .....	.60
<i>Chamaecyparis obtusa gracilis</i> .....	.50
<i>Chamaecyparis obtusa gracilis nana</i> .....	.60
<i>Cornus florida alba plena</i> .....	.50
<i>Cornus florida Prosser</i> , new red variety .....	.65
<i>Cornus florida rubra</i> .....	.50
<i>Juniperus</i> , in varieties .....	.50
<i>Juniperus sargentii</i> .....	.60
<i>Picea moerheimi</i>	1.00
<i>Thuja occidentalis pyramidalis</i> .....	.45
<i>Thuja orientalis aurea nana</i> .....	.45
<i>Viburnum bithchiense</i> .....	.50
<i>Viburnum burkwoodii</i> .....	.45
<i>Viburnum carlesi</i> .....	.45
<i>Viburnum chenaulti</i> .....	.45
<i>Viburnum juddi</i> .....	.50
<i>Viburnum plicatum grandiflorum</i> .....	.45

Please note—This list of lining-out stock is accurate as of June 15, 1959. Please send in orders soon as possible to avoid disappointment. 30 of a variety takes the 100 rate, excepting deciduous seedlings, which are bunched in lots of 25. There will be an additional charge for less than 30 of a variety. This list cancels all previous lining-out lists. Usual terms. We are wholesale only.

We will be very glad to quote you on your B&B Taxus requirements.

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1 12 ft.
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Bundle



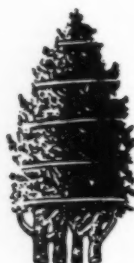
8 3 ft.
in Each
Bundle



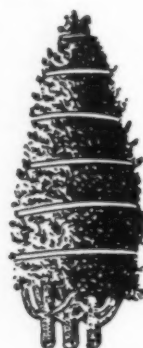
6 5 ft.
in Each
Bundle



5 6 ft.
in Each
Bundle



4 7 ft.
in Each
Bundle



3 8 ft.
in Each
Bundle



2 10 ft.
in Each
Bundle

OUR REPRESENTATIVE, ARTHUR GAKLIS, will be attending the national convention at the Sheraton.

never even heard of the convention or the Washington, D. C. office. The only thing I saw that I ever seen before was a rubber tree, like Mrs. Morse has got in her front hall at home. If I could get my honeysuckle started here there would be a big market. Yours, Emil.

Dear Chas: We had another visitor this week. Anderson the florist from Riverbend. He was as nervous as a rookie baseball pitcher. He calls up every day to home to see how the temperature is and if the boys are keeping the fires up in the greenhouse. We called on a wholesale florist about 6 miles from here yesterday. He works 12 hours a day and 7 days a week. If he leaves part of his layout alone for 3 months it goes back to the jungle. So half of his place is jungle and the rest is termites and rusty cans. He has 17 acres of stuff under lath racks, but I wouldn't trade him for an acre of honeysuckle up north. In cold weather he is up all night firing his smudge pots and then he has a pe-

riod when things burn up from the heat. Me and Anderson felt better after we went there. It aint too had in Riverbend we both said. I traded Anderson 500 geraniums for honeysuckles for this spring. I may be able to charge this trip up to selling expense if this keeps up. Yours, Emil.

Dear Chas: It rained all day today. Here in the park at the recreation hall me and Anderson played gin rummy all day. I made \$2.40 but Anderson didnt do so good. He wants to sell me his place and come down here to live. I might buy it when I get home. He said he would have to take 10% down so that might kill the deal. Anderson aint too bad, he took us to a cafeteria last night. I had ham hocks and cabbage. I had cramps all night. Yours, Emil.

Dear Chas: Old Frank came back yesterday. A funny thing happened. Frank was staying at a place three or four towns down the line where there was a pageant going on. All the men had been letting their

beards grow for a couple of months. They took Frank in and gave him second prize and he wasnt even playing. 2nd prize was a complete fishing outfit which he sold me for \$8.00. So I am all set to go fishing. We went out last night and fished until 2 A. M. and got 6 snook. Emma fried them for dinner. They was fair but not as good as the blue gills we get at home in Bowers Lake. Frank wants to go out in the ocean for big fish. Will let you know if we decide to go. Yours, Emil.

Dear Chas: Frank talked me into going out for big fish. We went on a boat with about 12 others. About noon it got real rough and the boat rocked and pitched so me and Frank swore if we ever got back we would never try it again. I was sicker than that time in Cincinnati when I ate the lobsters. You remember that dont you Chas. I caught a cucumber fish and Frank caught a Queen Trigger Fish. Nothing to eat. We left them on the boat and came

Insid
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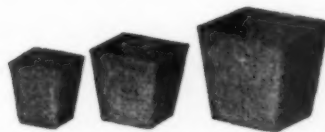


3 1/2" Round

3" Round

4" Azalea

4" Standard



1 1/2" Square

2 1/4" Square

3" Square

Inside top Dimension of pot	Number of pots	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000	Inside top Dimension of pot	Number of pots	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1428A 2 1/4-in. Diameter	2,000 to 18,000	2000	30 lbs.	\$ 7.25	S-1428 1 1/2-in. Diameter	2,500 to 17,500	2500	30 lbs.	\$ 7.00
S-1428B 3-in. Diameter	76,000 and over	1000	24 lbs.	6.75	Square	20,000 to 70,000			6.50
S-1428C 4-in. Diameter	10,000 to 49,000			12.25	Square	72,500 and over			6.00
S-1428D 4-in. Diameter	50,000 and over	500	27 lbs.	11.00	S-1428F 2 1/4-in. Diameter	2,000 to 18,000	2000	40 lbs.	11.00
S-1428E 4-in. Diameter	500 to 2,000			29.25	Square	20,000 to 74,000			10.25
S-1428F 4-in. Diameter	2,500 to 10,000	500	25 lbs.	26.75	Square	76,000 and over			9.50
S-1428G 4-in. Diameter	11,000 and over			35.25	S-1428D 3-in. Diameter	1,000 to 9,000	1000	40 lbs.	18.25
S-1428H 4-in. Diameter	500 to 2,000			28.75	Square	10,000 to 49,000			17.00
S-1428I 4-in. Diameter	2,500 to 9,500			26.25	Square	50,000 and over			15.25
Azalea	10,000 and over			24.75					

LITE-WEIGHT No. 10 PEAT POTS, TWO SQUARE SIZES—2 1/4 and 3-inch

For some growing purposes, these lighter weight pots are preferred.

Inside top Dimension of pot	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000	Inside top Dimension of pot	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
2 1/4-in.	2,500 to 17,000	2500	30 lbs.	\$7.50	3-in.	1,000 to 9,000	1200	30 lbs.	\$14.50
Square No. 10	20,000 to 72,500			7.00	Square No. 10	10,000 to 49,000			13.25
	75,000 and over			6.50		50,000 and over			12.00

VAL-PEAT POT ORDERS, 150 LBS. AND OVER, PREPAID IN CANADA AND U.S.A. EXCEPT ALASKA AND HAWAII.

Vaughan's Formula Z 5 in 1 Lawn Fungicide



Ends summer brown-out, brown patch, leaf spot, dollar spot and other lawn diseases without the need of diagnosis or experiments. Keeps deep green color in lawn through hottest midsummer weather. Easy to apply as dust, or spray, with usual garden equipment. 8 oz. treats 200-400 sq. ft.; 5 lbs. treats 20,000-40,000 sq. ft.

Cat.	No.	Size	Packed	Wt.	Dealers' Cost	Retail
	S304	8 oz.	12	12 lbs.	\$25.20	\$3.50
		5 lbs.	1	6 lbs.	14.85	24.75



Vaughan's Liquid Super Sodar®

High-power liquid for quick crab grass kill. Complete destruction in hours, not days. Clears heavily infested area for immediate preparation and planting of new lawn. Apply with sprayer. 1 pt. covers 1,500 sq. ft.

® Reg. applied for.

Cat.	No.	Size	Packed	Wt.	Dealers' Cost	Retail
	S271	1 pt.	12	20 lbs.	\$16.92	\$2.35
		1 qt.	12	35 lbs.	28.44	3.95

Vaughan's New Chickweed Killer

A positive destroyer of chickweed (also clover) for dry application. Contains new ingredients developed by Vaughan's. Packaged in handy new shaker-type container for quick and easy application without special equipment. Safe to use, will not harm the finest grass. 1 can enough to spot treat average lawn.

Cat.	No.	Packed	Wt.	Dealers' Cost	Retail
	S167	12		\$6.98	97c



Vaughan's Rose and Plant Dust or Spray with Phaltan

Protects plants from insects and diseases without diagnosing trouble. Contains new Phaltan for black spot on roses and other fungi and mites; Malathion, destroyer of aphids and other insects; 5% D.D.T. all-around insecticide dust. Protects roses, evergreens, and other ornamental plants from any pest that threatens them. Use in garden dusters or sprayers. 8 oz. is a refillable pump gun.

Cat.	No.	Size	Packed	Wt.	Dealers' Cost	Retail
	S276	8 oz.	24	22 lbs.	\$22.90	\$1.59
		1 lb.	12	18 lbs.	14.26	1.98
		4 lb.	8	35 lbs.	30.48	6.35



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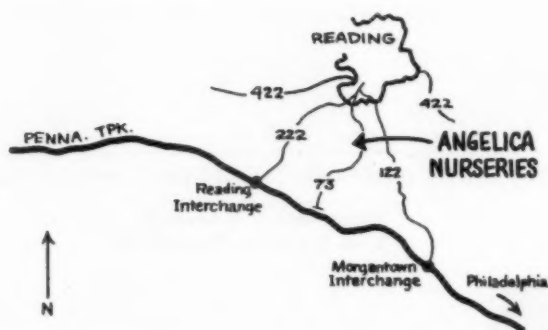
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Narrow-leaved evergreens include numerous varieties of **Taxus**, uprights and spreaders; **Juniper**; **Hemlock**; **Arborvitae**, etc. We've been specializing in broad-leaved evergreens and offer **Hybrid Rhododendron**, named varieties from own-root transplants to 4 ft., B&B. Fine blocks of **Ilex**: **American**, **English** and **Crenata**. **Azaleas**, **Pyracantha**, **Pieris japonica**, **Berberis julianae**, **Viburnum rhytidophyllum** and **burkwoodi**, etc. Truly fine stock at competitive prices. Your inspection of our nurseries is most cordially invited.

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Phone: Reading, SPruce 7-3831

R. D. No. 1, Mohnton, Pa.

home and laid down in the trailer. Deep sea fishing is nothing for the northerners. We would have been better off if we had staid home and played pinochle all day. Frank is thinking of buying an orange grove. He wants me to go in with him. We been out for two days looking at groves. I told Frank I was short of ready cash, but he says not to worry, he will take my note for my half. I'll let you know if we buy anything. Yours, Emil.

Dear Chas: I got a postal a few days ago from Doc Hart. He wants me to call on his brother that lives in DeSota Springs, so Frank and I drove down this morning. He lives on three acres on the edge of town and raises chickens for a living. Now Frank wants to locate a chicken

farm. Frank says we can clean up. He wants me to go in with him if he can find a place. Frank wants me to start out with him tomorrow and see if we can buy something. Frank has got me convinced. What do you think, Chas? Yours, Emil.

Dear Chas: Remember that old Saxon touring car I wrote you about? I stopped in at a place called Cars of Yesterday, where they got a collection of old cars all restored just like new. I told them about my 1914 Saxon. They didn't have any Saxons and they was looking for one. He came out this morning and made a deal for \$300.00 and he hauls it away. He is going to restore it and put it in his exhibit. Frank was sure surprised and I was sure surprised myself. Well Chas, I sup-

pose you wonder what I done with the money. I bought this trailer. I found out right away I should have saved some of the money. They hooked me \$11.00 for a trailer license, \$5.00 for sales tax, \$22.00 for insurance and now I have to pay \$12.00 a month rent. I may sell the outfit to Frank if I can get my money back. Frank claims I got hooked for about \$200.00, but I think he is just trying to soften me up to sell cheap. Dont be surprised if I bring the outfit home. Yours, Emil.

This is the last letter I got and more than 3 weeks have gone by. I dont know if Emil has holed in for the rest of his life or if he will be coming in some day soon with the trailer. Time will tell.

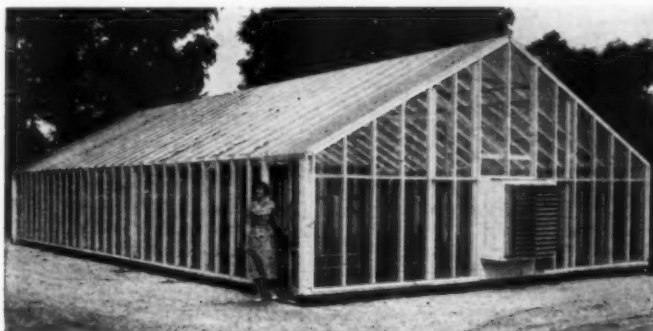
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New Lower Prices for MYLAR®

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- Du Pont Weatherable MYLAR Polyester film W... has been dramatically improved by Du Pont to last 4 to 7 years.*

Improved Weatherable MYLAR W—is now available in two types:

- W-1 This is the **new lower cost** film designed for one side exposure to the sun and is recommended for greenhouse glazing.
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Our plastic test house at West Chicago. Most all plastics offered for greenhouse use have been tried here under actual commercial conditions. It is on the basis of this actual experience that we feel Weatherable Mylar will be used extensively in greenhouse building.

Send for free sample swatches of Weatherable MYLAR, together with plans and specifications for building a plastic greenhouse.

New Type W-1 ROLL SPECIFICATIONS

100-ft. Roll			1000-ft. Roll		
Width	Wt. per Roll	Sq. Ft.	Width	Wt. per Roll	Sq. Ft.
42 in.	15 lbs.	350	42 in.	130 lbs.	3500
48 in.	17 lbs.	400	48 in.	150 lbs.	4000

PRICES PER SQUARE FOOT

	100-ft. rolls	1000-ft. rolls
300 to 2999 sq. ft.	\$0.15	
3000 to 23,999 sq. ft.	.14	\$0.13 1/2
24,000 sq. ft. and up	.13 1/2	.13

3% discount for cash with order; otherwise net.
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100-ft. Roll			1000-ft. Roll		
Width	Wt. per Roll	Sq. Ft.	Width	Wt. per Roll	Sq. Ft.
36 in.	13 lbs.	300	36 in.	112 lbs.	3000
42 in.	15 lbs.	350	42 in.	130 lbs.	3500
48 in.	17 lbs.	400	48 in.	150 lbs.	4000

PRICES PER SQUARE FOOT

	100-ft. rolls	1000-ft. rolls
300 to 2999 sq. ft.	\$0.17 1/2	
3000 to 23,999 sq. ft.	.16 1/2	\$0.16
24,000 sq. ft. and up	.16	.15 1/2

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Minimum order, 1 roll. F.O.B. West Chicago.

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For JIFFY-POT Prices See Page 69.

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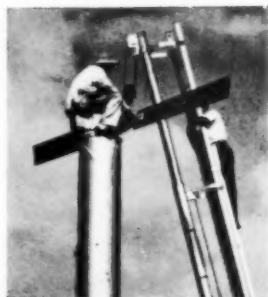
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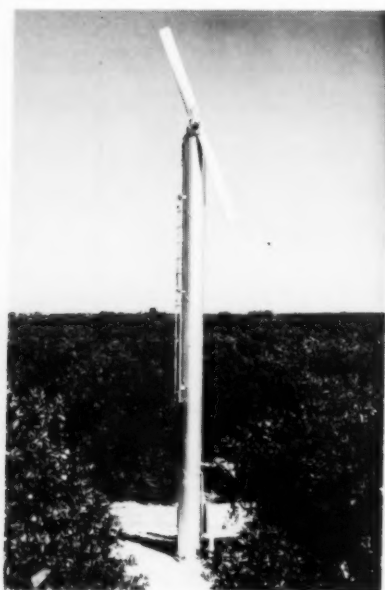
Preventing frost damage is a business must for the John Morroni's on their flower farm located in Fort Myers, Florida. Early this year, they had an FMC Tropic Breeze Wind Machine installed. The results. On nights when temperatures dropped to crop damaging levels, the FMC wind machine delivered effective protection preventing costly frost damage to their flowers. Not only was the wind machine effective, but extremely economical to operate as well—less than a few cents per acre per hour of operation. Plan now, like the Morroni's, to get fast, low cost frost protection for your farm or nursery. Send for literature today.

Act now —

your immediate action now will allow ample time for careful analysis and early installation of your FMC wind machines.

MAIL COUPON ON NEXT PAGE

What you should know about wind machines for proper frost protection



TROPIC BREEZE GROUND POWERED MODEL



TROPIC BREEZE ENGINE ON TOP MODEL
SINGLE OR DUAL POWERED UNITS AVAILABLE



TROPIC BREEZE ELECTRIC MODEL—
COMPLETELY AUTOMATIC

Don't Skimp on Horsepower

Six to eight horsepower per acre is a minimum requirement for safe frost protection. This figure has been substantiated by all published findings. Machines employing two fan blades must have engines that can deliver proper horsepower to each fan. For example, a wind machine with a single eighty horsepower engine and two fan blades can deliver no more than forty horsepower on each fan.

Large Diameter Fan Blades Are Important

The longer the fan blade the bigger the jet of warm air that is moved into the nursery or farm. Small propeller-type blades cannot move the volume of air longer blades are capable of. Turning at 590 rpm (recommended speed for best results) these longer

blades produce 25% more air in the nursery or farm than the propeller type.

Buy Only a Proven Machine

There have been many wind machines built. Most types have come and gone. As a wind machine buyer, be skeptical of any machine that has not fully proven itself during a freeze. A wind machine that has not performed under severe freezes and in a number of different locations is a risky purchase.

Let Trained Personnel Help You

Terrain, wind drift, closeness of planting, and height are all important factors to be studied before proper installations can be made. Qualified factory field engineers are available to study your nursery or farm and make recommendations. This service is made without charge or obligation.

Why the FMC TROPIC BREEZE Wind Machine for your nursery or farm?

1. They are fast.

Frost protection starts 3 to 5 minutes after machine is turned on.

2. They are proven.

Twenty years of manufacture, thousands of installations, plus conclusive documented results are behind every machine you buy.

3. They cost less to operate.

Running costs can be measured in a few cents per acre per hour of operation. And one man, not a crew, is all that is required to supervise entire operation.

Remember—Every major advance in wind machines for frost protection has come from the makers of Tropic Breeze Wind Machine.

Send for illustrated literature — now!

FOOD MACHINERY AND CHEMICAL CORPORATION, FLORIDA DIVISION
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- ☐ Please send me sales literature on Tropic Breeze Wind Machines.
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General Sales Offices:
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Hear Reports At Maryland Summer Meet

By Charles W. McComb

The annual summer meeting of the Maryland Nurserymen's Association was held at Ocean City, Md., June 14 to 16. The program for the meeting featured good fellowship and relaxation.

Registration took place Sunday afternoon, June 14. A social hour, with refreshments, followed in the evening, at the Harrison Hall hotel, headquarters for the meeting.

Monday morning, a business session was held in the hotel, and a series of committee reports was presented. The advertising committee displayed a new planting and maintenance guide available to members for distribution to customers. This valuable booklet contains information dealing with proper planting and cultural practices for shrubs and trees.

The graduate fellowship committee reported that a student has accepted the graduate assistantship sponsored by the Maryland Nurserymen's Association and the University of Maryland, and he will begin his work on a project in September.

President Gilbert Gude, A. Gude Sons Co., Rockville, reporting for the legislature committee, announced his committee was developing a policy for presentation for approval by the entire membership in regard to Maryland's Sunday closing law. He emphasized that any legislation passed by the Maryland lawmakers should treat all nurseries alike. Information will be forthcoming in the future to help nurserymen with sales tax problems.

Membership Growing

Ray Gustin, Gustin Gardens, Inc., Rockville, chairman of the membership committee, read the names of 23 new members, and those of the group who were present were asked to stand and be recognized. Mr. Gustin stated that he believes every reputable nurseryman in the state should become a member of the association. The goal of 30 new members for the current fiscal year has almost been met.

Carl Orndorff, J. H. Small & Sons, Inc., Chevy Chase, chairman of the

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Cotoneaster horizontalis
Rivers' Purple Beech, 2 to 3 ft. and 3 to 4 ft.
Enkianthus campanulatus
Euonymus, in varieties
Forsythia, in varieties
Hydrangea Nikko Blue and Climbing (petiolaris)
Juniperus, in varieties
Magnolia, in varieties
Flowering Almond
Rhododendron Hybrids, in varieties, grown from cuttings
Sciadopitys verticillata
Viburnum, in varieties

Many other assorted flowering shrubs.

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AZALEAS AND HYBRID RHODODENDRONS

For Forcing and Landscape Planting.

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PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

	Per 100	Per 1000	5000 or more
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Ilex glabra (Japanese Holly)
Ilex microphylla (Japanese Holly)
Picea excelsa (Norway Spruce)

Pieris japonica (Japanese Andromeda)
Pinus, in variety, **excelsa** (Pines)
Taxus, in variety (Yews)
Thuja elegantissima (Arborvitae)
Tsuga canadensis (Hemlock)

Cornus florida, for street planting, 1½ to 2½-in. cal., 8, 9 and 10 ft. and over, branching at 4, 5 and 6 ft. aboveground.

Acer, in variety—Norway, Crimson King and **negundo variegatum**
Amygdalus, in variety—(Flowering Peach)
Betula alba (European Birch)
Cornus florida rubra
Prunus, in variety—(Flowering Plum and Flowering Cherry)

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ASK FOR CATALOG

public relations committee, described a program his committee has worked out to foster better public relations. This includes use of a large display board for public gatherings, greater cooperation between nurserymen and the several county agents assigned to deal with homeowner's horticultural problems in the metropolitan counties, presenting a list of speakers available for talks to garden clubs and greater cooperation between public utility companies and state agencies in regard to planting and care of nursery stock.

Social Events and Tour

Monday afternoon was spent enjoying the beach resort after a marvelous clambake on the patio of the Harrison Hall hotel. A special show, featuring a band, singing and dances, was presented for the membership Monday evening by the hotel. A social hour and dancing followed the entertainment and were enjoyed by everyone.

A bus tour of Buntings' Nurseries, Inc., Selbyville, and the Tingle Nursery, Pittsville, was made Tuesday. Nurserymen had the opportunity to observe large-scale growing operations in the field. Buntings' furnished the bus for the tour, and Mr. Tingle provided everyone with a fine lunch.

MAXWELL, BOWDEN & RICE, INC.

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Roses — Shrubs — Fruit Trees — Ornamentals — Vines — Hedge

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Rayon Floral Flock is especially desirable where you wish a velvety surface on items fabricated from plaster, wood, papier-mache, metal, or any other surface capable of supporting a film of paint or adhesive. It is widely used on containers, baskets, cardboard cut-outs and decorative pieces of all types. For pile effect, Floral Flock can be applied the same as Snow-Flock. Sample Color Cards showing the range of standard colors of Cellusuede Rayon Floral Flock are yours for the asking. Write us on your letter head for immediate action.

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CHOICE NURSERY STOCK IN LANDSCAPE SIZES

- | | |
|--|---|
| Abelia grandiflora, 2 to 3 ft. | Japanese Box, Green Beauty, 12 to 15 ins. |
| Moss Cypress, 3 to 4 ft. | Koelreuteria paniculata, 6 to 8 ft. |
| Pyramid Arborvitae, 2 to 3 ft., 3 to 4 ft. | Sophora japonica, 5 to 6 ft. |
| Compact Erect Arborvitae, 18 to 24 ins. | Mallow, Annie J. Hemming (Plant Patent No. 835) |
| Norway Maple, 6 to 8 ft., 8 to 10 ft. | Irish Yew, 12 to 18 ins. |
| White Crape Myrtle, 3 to 4 ft. | Hicks' Yew, 3 to 4 ft. |
| Vermeulen Yew, 24 to 30 ins., 30 to 36 ins. | Silver Maple, 10 to 12 ft., 12 to 14 ft. |
| Magnolia soulangeana, 6 to 8 ft. | Pink Dogwood, 5 to 6 ft. |
| Douglas Spruce, 18 to 24 ins. | Korean Box, 21 to 24 ins. |
| Chinese Chestnut, 8 to 10 ft. | Sour Gum, 10 to 12 ft. |
| Chinese Chestnut, 1-yr., S. | Ilex verticillata, 3 to 4 ft. |
| Upright Plum Yew, 24 to 30 ins., 30 to 36 ins. | Pin Oak, 2 to 4-in. cal., specimen |
| Judas Tree, 6 to 8 ft. | Red Oak, 8 to 10 ft. |

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Fine — Spruce — Fir
Seedlings and Transplants

SAM DIBLE NURSERY

R. F. D. 3 Shelocta, Pa.

STAN SAYS

Paul's Scarlet Hawthorn

Paul's Scarlet hawthorn has received more good words than it deserves. I worked with it during July and found it hard to hold in check; time is required to prune all the branches; the wooly aphid like it, and one must avoid feeding it, because it makes long — very long — growth that topples over; if one trims it too much, too many suckers result. Three things can be said in the tree's favor: The flowers are attractive, the leaves are good and the tree has no fruit to litter up the lawn or garden.

Chrysanthemums

In staking and tying hardy chrysanthemums, one makes the biggest error in using only one stake and one piece of cord or twine (jute or heavy cotton). This throws all the growth together and, in consequence, many leaves yellow and fall. If one wishes to use only one stake, he should make several ties; in that way light and air will reach all leaves. The cord must go around the stake once; otherwise it will slide down and make the tying ineffective. One should stop pinching chrysanthemums by the first of August. It might be well to discard varieties that are not in bloom by October 20 unless one lives below the Mason-Dixon line, where the plants have a longer season.

Forcing Dutch Bulbs

The sooner Dutch bulbs are potted for forcing, the better; late September or early October are desirable times. I know a good Scotch gardener who has access to an old springhouse just outside of Pittsburgh, and he finds this an ideal place to store his potted bulbs, since the constant-temperature of 40 degrees is ideal for forcing. Hyacinth Marconi is a fine pink for late or Easter forcing. I consider Hyacinth Lady Derby too light a pink.

Perennials

Frequent division of pyrethrum is necessary—early spring, early fall or right after blooming season. In order to keep many plants in good condition, divide and replant in newly compounded soil.

Anchusa myosotidiflora has a new botanical name that will kill the sale of any good plant, so I will use the old standby in this item. Pull the

[Continued on page 68]

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Cole's National Advertising of the
unique, fast-selling** **SUNBURST**



Spectacular SUNBURST

®(Plant Patent No. 1313)

The sensational, new two-color tree with brilliant yellow foliage on branch tips. It appears to burst with bloom all summer long.

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Cole assures you a dependable supply of 360 varieties of ornamental and shade trees, evergreens, deciduous shrubs and hard-to-find items. The high quality of Cole nursery stock is the result of three-quarters of a century of experience. Our modern, mechanized methods, ideal soil conditions and large-scale operations produce better plants at lower cost. We can fill your order promptly in large or small quantity. You can be sure of getting healthy, sturdy plants with more compact, uninjured root systems when you order from Cole. Send for our new catalog today.

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QUALITY NURSERY-GROWN SEEDLINGS

All our seedlings are grown in open beds, with proper irrigation and fertilization. They have good caliper for height. They are shipped fresh-dug or stored under the best modern storage facilities. You will be well pleased with the "catch" you get with our seedlings.



Careful Grading Assures
Uniformity of Plants



30 Acres of Seedbeds at the Beginning
of the Growing Season



Packing Out the
Finished Product

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
Acer campestre (Hedge Maple)			Betula populifolia (Gray Birch)			Elaeagnus umbellata (Autumn Elaeagnus)		
4 to 6 ins.	4e	3e	6 to 9 ins.	5e	3e	6 to 12 ins.	4e	3e
6 to 12 ins.	7e	5e	9 to 12 ins.	7e	6e	12 to 18 ins.	5½e	4e
12 to 18 ins.	9e	7e	12 to 18 ins.	8e	6½e	18 to 24 ins.	7e	5e
18 to 24 ins.	15e	13e						
Acer glabrum (Amur Scarlet Maple)			Carpinus betulus (European Hornbeam)			Euonymus bungeanus semipervirens (Strawberry Tree)		
6 to 12 ins.	3e	2½e	6 to 9 ins.	7e	5e	6 to 9 ins.	6e	4½e
12 to 18 ins.	4½e	4e	9 to 12 ins.	10e	8e	9 to 12 ins.	7½e	6e
18 to 24 ins.	7e	5½e	12 to 18 ins.	14e	11e	12 to 18 ins.	9e	7½e
Acer palmatum (Japanese Maple)			Carpinus japonica (Japanese Hornbeam)			Fagus sylvatica (European Beech)		
4 to 6 ins.	7e	5e	6 to 9 ins.	9e	7e	6 to 12 ins.	9e	7e
Acer pseudoplatanus (Sycamore Maple)			9 to 12 ins.	12e	10e			
6 to 12 ins.	5e	3½e	Celastrus orbiculata (Oriental Bittersweet)			Fraxinus excelsior (European Ash)		
12 to 18 ins.	7e	5e	6 to 12 ins.	4e	3e	18 to 24 ins.	6e	5e
18 to 24 ins.	10e	7e	12 to 18 ins.	6e	4e	2 to 3 ft.	9e	7e
Acer saccharinum (Silver Maple)			Cercis canadensis (Eastern Redbud)			3 to 4 ft.	12e	10e
6 to 12 ins.	3e	2e	6 to 12 ins.	3e	2e	Ginkgo biloba (Ginkgo or Maidenhair Tree)		
12 to 18 ins.	4e	3e	12 to 18 ins.	5e	3e	6 to 12 ins.	15e	12e
18 to 24 ins.	5e	3½e	Cercis chinensis (Chinese Redbud)			Gleditsia triacanthos inermis (Thornless Honey Locust)		
2 to 3 ft.	7e	5½e	6 to 12 ins.	4e	3e	6 to 12 ins.	3e	2e
Alnus altissima (Tree of Heaven)			12 to 18 ins.	7e	4½e	12 to 18 ins.	5e	3e
12 to 18 ins.	5e	4e	Cornus racemosa (Gray Dogwood)			3/16-in. cal.	6e	4½e
18 to 24 ins.	7e	5e	6 to 12 ins.	5e	4e	¼-in. cal.	8e	6e
2 to 3 ft.	10e	8e	12 to 18 ins.	8e	6½e	Hamamelis vernalis (Vernal Witch Hazel)		
Albizia julibrissin (Mimosa—northern strain)			Crataegus cordata (Washington Hawthorn)			6 to 12 ins.	6e	5e
12 to 18 ins.	4e	3e	6 to 12 ins.	10e	8e	12 to 18 ins.	9e	7½e
18 to 24 ins.	6e	5e	12 to 18 ins.	15e	12e	Hex decidua (Deciduous Holly)		
2 to 3 ft.	9e	7e	Cryptomeria japonica (Cryptomeria)			6 to 12 ins.	9e	7e
Aralia elata (Japanese Angelica Tree)			2 to 4 ins.	3e	2e	Hex opaca (American Holly—northern)		
4 to 6 ins.	4½e	3e	4 to 6 ins.	5e	3e	4 to 6 ins.	9e	7e
6 to 12 ins.	6e	4½e	Cupressus arizonica (Arizona Cypress)			6 to 12 ins.	15e	10e
Berberis koraiana (Korean Barberry)			4 to 6 ins.	5e	4e	Juniperus procumbens (Procumbens Juniper)		
6 to 12 ins.	10e	8e	6 to 12 ins.	9e	7e	6 to 8 ins., heavy	12e	9e
Berberis thunbergii (Japanese Barberry)			Elaeagnus angustifolia (Russian Olive)			8 to 12 ins., heavy	15e	12e
4 to 6 ins.	5e	3½e	6 to 12 ins.	3e	2e	Juniperus rigida (Needle Juniper)		
6 to 12 ins.	7e	5e	12 to 18 ins.	4½e	3e	6 to 8 ins.	10e	8e
Berberis thunbergii atropurpurea (Japanese Red-leaved Barberry)			18 to 24 ins.	6e	4½e	8 to 12 ins.	15e	12e
4 to 6 ins.	5e	3e	2 to 3 ft.	8e	6½e	Juniperus virginiana (Red Cedar—Winona Type), 1-yr., S.		
6 to 12 ins.	7e	5e	Elaeagnus multiflora (Cherry Elaeagnus)			4 to 6 ins.	5e	4e
Betula japonica (Japanese Birch)			6 to 12 ins.	4e	3e	Juniperus virginiana (Red Cedar—Winona Type), 2-yr., S.		
6 to 12 ins.	7e	6e	12 to 18 ins.	5½e	4e	6 to 9 ins.	7e	5e
Betula pendula (White Birch)			18 to 24 ins.	7e	5e	9 to 12 ins.	9e	7e
6 to 12 ins.	7e	6e						

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	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate				
Kerria japonica (Kerria)			Pinus nigra (Austrian Pine)			Rosa multiflora (Multiflora Rose)	Per 100	Per 1000	
6 to 12 ins.	8c	6½c	4 to 6 ins.	5c	3c	Conservation grade,			
12 to 18 ins.	10c	9c	6 to 8 ins.	7c	4c	3 mm, 8 to 12 ins.		\$13.50	
Koeleruteria paniculata (Golden-Rain Tree)			Pinus resinosa (Red Pine or Norway Pine)			No. 2, 2/16 to 3/16-in.		18.00	
6 to 12 ins.	9c	7c	2 to 4 ins.	5c	3c	cal., 12 to 18 ins.		24.00	
12 to 18 ins.	12c	9c	Pinus strobus (Eastern White Pine)			Jumbo, 1/4 to 3/8-in. cal. \$	5.00	36.00	
18 to 24 ins.	18c	15c	2 to 4 ins.	5c	3c	Country Club, 3/8-in. cal.		10.00	60.00
Laburnum alpinum (Scotch Laburnum)			4 to 6 ins.	7c	4c	and up		15.00	100.00
10 to 12 ins.	9c	7c	Pinus sylvestris (Scotch Pine, blue-green, Austrian Hills selection)			Heavy, 2-yr., 2 to 3 ft.,			
Laburnum anagyroides (Golden Chain)			4 to 6 ins.	5c	3c	½-in. cal. and up			
10 to 12 ins.	9c	7c	6 to 8 ins.	7c	4c				
Larix leptolepis (Japanese Larch)			8 to 12 ins.	9c	5½c	Rosa rugosa (Rugosa Rose)	Each 100 rate	Each 1000 rate	
4 to 6 ins.	6c	4c	Pinus thunbergii (Japanese Black Pine)			2 to 4 ins.	5c	3c	
6 to 12 ins.	11c	9c	4 to 6 ins.	6c	4c	4 to 6 ins.	7c	5c	
Ligustrum sinense (Chinese Privet)			6 to 8 ins.	9c	7c	Sophora japonica (Japanese Pagoda Tree)			
6 to 12 ins.	1½c	1c	8 to 12 ins.	11c	9c	4 to 6 ins.	9c	7c	
12 to 18 ins.	3c	1½c	Platanus orientalis (Oriental Plane Tree)			6 to 9 ins.	13c	11c	
18 to 24 ins.	4c	2c	6 to 12 ins.	5c	3c	Syringa vulgaris (European Lilac)			
Liquidambar styraciflua (Sweet Gum—from Illinois seed)			12 to 18 ins.	9c	7c	6 to 9 ins.	5c	3½c	
8 to 12 ins.	10c	7c	18 to 24 ins.	13c	11c	9 to 12 ins.	7c	5c	
12 to 18 ins.	13c	9c	Prunus subhirtella (Higan Cherry)			12 to 18 ins.	9c	7c	
18 to 24 ins.	18c	14c	12 to 18 ins.	11c	9c	Taxodium distichum (Cypress)			
Liriodendron tulipifera (Tulip Tree)			18 to 24 ins.	13c	11c	6 to 9 ins.	9c	6½c	
6 to 12 ins.	7c	5c	Prunus subhirtella pendula (A varying percentage exhibits pendulous character)			9 to 12 ins.	11c	9c	
12 to 18 ins.	11c	9c	6 to 12 ins.	7c	5c	12 to 15 ins.	14c	11½c	
Lonicera maackii podocarpa (Amur Honeysuckle)			12 to 18 ins.	11c	9c	Tilia cordata (Little-Leaved Linden)			
12 to 18 ins.	5c	4c	18 to 24 ins.	13c	11c	6 to 12 ins.	10c	8c	
18 to 24 ins.	7c	5c	Prunus tomentosa (Nanking or Manchurian Cherry)			12 to 18 ins.	16c	14c	
2 to 3 ft., heavy	11c	9c	6 to 12 ins.	5½c	4c	18 to 24 ins.	20c	15c	
3 to 4 ft., heavy	15c	13c	12 to 18 ins.	7c	5½c	Tilia platyphyllos (Big-Leaved Linden)			
Lonicera tatarica (Tatarian Honeysuckle)			18 to 24 ins.	11c	8c	6 to 12 ins.	10c	8c	
6 to 12 ins.	4c	2½c	Pseudotsuga taxifolia douglasii (Douglas Fir, Rocky Mountain type)			12 to 18 ins.	16c	14c	
12 to 18 ins.	6c	4c	4 to 6 ins.	5c	3c	18 to 24 ins.	20c	15c	
18 to 24 ins.	9c	7c	6 to 9 ins.	7c	4c	2 to 3 ft.	4½c	4c	
Malus sargentii (Sargent Crab Apple)			9 to 12 ins.	10c	6c	Ulmus parvifolia (True Chinese Elm)			
6 to 12 ins.	9c	7c	Quercus borealis maxima (Northern Red Oak)			6 to 12 ins.	5½c	4c	
12 to 18 ins.	13c	11c	6 to 12 ins.	9c	6c	12 to 18 ins.	7½c	6c	
Malus sieboldii (Toringo Crab Apple)			12 to 18 ins.	11c	9c	18 to 24 ins.	11c	9c	
6 to 12 ins.	4c	2½c	18 to 24 ins.	13c	12c	2 to 3 ft.	15c	13c	
12 to 18 ins.	7c	4c	Quercus coccinea (Scarlet Oak)			Ulmus pumila (Siberian Elm)			
18 to 24 ins.	9c	7c	6 to 12 ins.	9c	7c	6 to 12 ins.	1½c	1c	
2 to 3 ft., heavy	13c	11c	12 to 18 ins.	12c	10c	12 to 18 ins.	2½c	1½c	
3 to 4 ft., heavy	20c	15c	18 to 24 ins.	15c	13c	18 to 24 ins.	3½c	2½c	
Malus xumi (Redbud Crab Apple)			Quercus palustris (Pin Oak)			2 to 3 ft.	4½c	4c	
6 to 12 ins.	9c	7c	6 to 12 ins.	6½c	4c	Viburnum dilatatum (Linden Viburnum)			
12 to 18 ins.	11c	9c	12 to 18 ins.	9c	8c	6 to 12 ins.	10c	8c	
18 to 24 ins.	15c	13c	18 to 24 ins.	13c	11c	12 to 18 ins.	15c	13c	
Nyssa sylvatica (Black Gum)			Rhamnus cathartica (Buckthorn)			Viburnum opulus (European Cranberry Bush)			
6 to 12 ins.	7c	5c	6 to 12 ins.	4c	3c	12 to 18 ins.	12c	10c	
12 to 18 ins.	10c	8c	12 to 18 ins.	7c	5c	18 to 24 ins.	15c	13c	
18 to 24 ins.	13c	11c	18 to 24 ins.	9½c	7c	24 to 30 ins.	20c	17c	
Parthenocissus quinquefolia (Virginia Creeper)			Rhodotypos kerrioides (Jetbead)			Viburnum rufidulum (Southern Black Haw)			
No. 1, S.	7c	5c	6 to 12 ins.	7c	5c	12 to 18 ins.	12c	10c	
No. 2, S.	5c	3½c	12 to 18 ins.	11c	7c	18 to 24 ins.	15c	13c	
Parthenocissus tricuspidata (Boston Ivy)			18 to 24 ins.	15c	13c	24 to 30 ins.	20c	17c	
No. 1	11c	9c	Robinia pseudoacacia (Black Locust)			Viburnum wrightii (Wright Viburnum)			
No. 2	7c	5c	12 to 18 ins.	3c	2c	6 to 12 ins.	10c	8c	
Phellodendron amurense (Amur Cork Tree)			18 to 24 ins.	5c	3c	12 to 18 ins.	15c	13c	
12 to 18 ins.	6½c	5c	2 to 3 ft.	7c	5c	Vitex agnus-castus (Chaste Tree)			
18 to 24 ins.	9c	7c	Rosa rugosa (Rugosa Rose)			6 to 12 ins.	6c	4½c	
24 to 30 ins.	13c	11c	2 to 4 ins.	5c	3c	12 to 18 ins.	9c	7c	
			4 to 6 ins.	7c	5c	18 to 24 ins.	11c	9c	
			6 to 8 ins.	9c	7c	Zelkova serrata (Japanese Zelkova)			
			8 to 12 ins.	11c	9c	6 to 12 ins.	7c	5c	
						12 to 18 ins.	11c	9c	
						18 to 24 ins.	14c	9c	

All prices F.O.B. Elsberry. Boxing and packing at cost.

Please Note: This list is accurate as of July 1, 1959. Many items will be snapped up quickly, so please book without delay to avoid disappointment.

Plants are tied 25 to a bundle, so please order in units of 25. 25 to 300 take the 100 rate; 300 or more the 1000 rate. Prices are F.O.B. Elsberry—any necessary crates at cost.

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THANKS For the business of this past season.

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crown of this plant apart every three years. It self-seeds if left unweeded. The only plant with true blue flowers in early spring, it thrives in sun, shade or even wet places and can be forced in a greenhouse.

"DAFFYNITIONS" COMPOSED BY A TIRED NURSERYMAN

Complaint department—last person hired.

Customer service department—Something that exists in the summer and winter and is abolished in the spring and fall.

Entomologist—A "pestimist" who gets paid for it.

Garden center operator—One who spends nine months of the year planning how to get customers and three months griping because he's got them.

Garden club—Horticulture group organized for the purpose of obtaining ornamental plants free.

Landscape architect—A nurseryman who likes to work sitting down.

Mail-order nurseryman—A horticulturist who, for any one of a number of reasons, would rather not meet his customers face to face.

Nurseryman—A farmer who can pronounce "physiological" but can't spell it.

Nurseryman's wife—A patient soul, who, in retrospect, wishes she had married a dentist.

Propagator—Anyone who can look at a piece of wood and say convincingly, "Too soft."

Good propagator—A person who manages to throw away all dead plants before the boss sees them.

Wholesale department—First person to answer the telephone.

Wholesale salesman—One who spends four weeks selling a customer, four weeks answering the telephone, four weeks settling complaints and nine months telling the boss how good he is. S. B. Hutton, Jr.

SOLD recently was the branch at North Abington, Mass., of Wyman's Garden Centers, Inc., Framingham, Mass., to Philip P. Rosette, Cohasset, Mass. The garden center will be operated under the name of Nurseryland.

OCCUPYING a new warehouse and maintenance shop with a built-in truck garage, Walter D. Hadfield, Tree Preservation, Downingtown, Pa., is also developing a nursery on the firm's 44 acres.

CONDUCTING a nursery known as Misty Vale Gardens, Sandy Hook, Conn., are Brendon B. and H. V. Jones.

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FASTER GROWTH

Nursery stock reaches salable size at least 20 per cent faster. Propagators report that 3-year-old stock which was started in Jiffy-Pots is fully equal to 4-year stock started in clay pots—the same space can produce 4 Jiffy-Potted crops in the time it took to grow 3 clay-potted crops. A big part of this saving comes at field planting time. **Liners need not be root-bound to transplant successfully**, but can be set out after only a few weeks in Jiffy-Pots. Also, since they carry a blanket of moist peat right with them, **field planting can be extended further into warm dry weather.**

REDUCED HANDLING COSTS

Pot-handling chores are all but eliminated, which leads to greatly increased efficiency. To quote Bill Flemer of Princeton Nurseries, Princeton, N. J.: "This past spring a truckload of plants came to the field in clay pots instead of in Jiffy-Pots. The planting crew had to stop their routine, knock the plants out of the clay pots, pick up the pots, haul them back to the shed, store them, etc. It was so disrupting and so great a delay that we are really convinced it is much cheaper to buy a new Jiffy-Pot for every use." P.S.—The old clay pots were not sterilized either!

NO TRANSPLANT SHOCK

Since the **root system is completely enclosed in peat**, it takes its entire greenhouse environment right with it to the field. Therefore, **no shock from root disturbance**. This attribute comes into sharp focus with hard-to-transplant crops. Cartwright Nurseries, Collierville, Tenn., used 100,000 Jiffy-Pots on one such difficult crop, *Ilex burfordi*. Whereas they formerly had much difficulty getting *Ilex burfordi* to survive transplanting, their problem is now about solved and they plan to use Jiffies on Photinias, Magnolias, several conifers and other tough-to-transplant items.





Dick Boonstra (far right) of Wayside Gardens, Mentor, Ohio, with Veronica plants in 2 1/4-in. Jiffy-Pots. He says, "The root system was bigger and more impressive than we had gotten from substantially earlier propagation with clay pots. We expect to use Jiffies on a large scale next year."




Henry H. Chase holds a *Callicarpa purpurea* after one season in the field. Started in Jiffy-Pots by Chase Nursery Co., Chase, Ala. They use Jiffy-Pots for many types of nursery subjects including *Ilex* and various types of evergreens.


ROUNDS


	No. 115, 1 1/2-in. Round	Per 1000
	3000 to 18,000	\$5.90
	21,000 to 72,000	5.40
	75,000 and up	4.90
	Sold in cases of 3000. 18 lbs. per case. Minimum order 3000.	


	No. 122, 2 1/4-in. Round	Per 1000
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	Sold in cases of 3000. 35 lbs. per case. Minimum order 3000.	

	No. 130, 3-in. Round	Per 1000
	1500 to 9000	\$13.25
	10,500 to 49,500	12.25
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	No. 222, 2 1/4-in. Square	Per 1000
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	No. 230, 3-in. Square	Per 1000
	1000 to 9000	\$14.50
	10,000 to 49,000	13.25
	50,000 and up	12.00
	Sold in cases of 1000. 25 lbs. per case. Minimum order 1000.	

	No. 240, 4-in. Square	Per 1000
	500 to 4500	\$27.50
	5000 to 19,500	25.50
	20,000 and up	23.50
	Sold in cases of 500. 35 lbs. per case. Minimum order 500.	

SHORTIES

	No. 330, 3-in. Shorty	Per 1000
	1500 to 9000	\$13.00
	10,500 to 49,500	12.00
	51,000 and up	10.75
	Sold in cases of 1500. 33 lbs. per case. Minimum order 1500.	

	No. 335, 3 1/2-in. Shorty	Per 1000
	1000 to 6000	\$18.25
	7000 to 29,000	17.00
	30,000 and up	15.25
	Sold in cases of 1000. 35 lbs. per case. Minimum order 1000.	

Prices NET. Prepaid in lots of 150 lbs. or more anywhere in the continental United States excluding Alaska. Otherwise F.O.B. West Chicago; Bayonne, N. J.; Allentown, Pa.; Toledo, O.; Houston, Tex.; Los Angeles and San Francisco, Calif.; Portland, Ore.; Mobile, Ala.

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New and Old Plants for the Landscape

Reported by Kenneth Bradley

Plants that have an appeal of novelty and others that are not well known but serve specific purposes in landscape work may often be worthwhile additions to the nurseryman's inventory. They should be supplementary, only, it was added in a talk "Landscape Planting—New Plants and New Uses for Old Plants," given by Harold O. Perkins, associate professor of landscape design, University of Connecticut, Storrs, at a nurserymen's short course held at Storrs. The plants are not superior to those commonly sold, nor are they necessarily big money-makers, because they include some difficult to propagate and slow to grow.

Professor Perkins showed colored slides of proposed plants and gave descriptive remarks with some references to Connecticut factors, as follows, about each one:

Deciduous Shrubs

Red-veined enkianthus (*Enkianthus campanulatus*). It has beautiful fall foliage and good clean summer foliage. The flowers look well and lend themselves to bouquets, even though they are small. The smooth gray stem of the plant provides winter interest.

Nikko enkianthus (*Enkianthus subsessilis*). This is a good plant that is almost impossible to locate. It only grows five feet in height and has a dark red fall color. The light-colored seed pod contrasts well with the autumn foliage. Quality shrubs in the 5 to 6-foot range are rare; here is a neglected shrub to fill such a need.

Franchett cotoneaster (*Cotoneaster franchetti*). This plant has shiny foliage, even though it is on the gray side. It has a good fall color. It is completely hardy, and because of its flat branches, it lends itself well to espalier work, which should be a device used more widely on modern houses having large wall spaces.

Doublefile viburnum (*Viburnum tomentosum*). It has a good flower and summer foliage of good substance, as well as good fall color. It can be espaliered and does not need mechanical support. The plant is hard to buy in Connecticut, apparently because so much emphasis is placed on smaller-size shrubs used in foundation plantings.

Cornell Pink rhododendron (*Rhododendron mucronulatum* Cornell Pink). It is recommended for its

good, clear pink color. It does not have the purplish color found in the type plant. This plant was developed at Cornell University by Dr. Skinner and has taken a long time to get into the commercial trade.

Prostrate broom (*Cytisus decumbens*). This plant is recommended for its strong mass of yellow color and because it does not grow so tall as the other brooms.

Broad-Leaved Evergreens

Chenault barberry (*Berberis chenaulti*). This looks more like a holly than a barberry. In November the leaves take on a bronzy red color that is retained all winter.

Wintergreen barberry (*Berberis julianae*). It will grow taller than the other evergreen barberries and is faster growing. It may winter burn in an exposed location.

Dwarf inkberry (*Ilex glabra compacta*). It is recommended as being much dwarfer than others. (One should always be on the lookout for compact forms of standard shrubs.)

Bearberry (*Arctostaphylos uva-*

ursi). This plant fills a great need for ground covers in hot, sunny places. It is a plant with a great deal of merit, in spite of its fault of being difficult to propagate or move. Professor Perkins hopes to see this difficulty overcome some day.

Dwarf euonymus (*Euonymus nana*). It is a sprawling dwarf shrub that can be used to hide the lower part of a downspout.

Canby pachistima (*Pachistima canbyi*). It stays about nine inches high, is evergreen and will withstand sun. The small leaves, about the size of boxwood's, are attractive, but the plant must be kept compact. It has a tendency to sprawl and catch leaves, and after about eight years plants may have to be replaced. However, it is recommended because of the need for plants in the 9 to 12-inch category. These plants have been used as a ground cover.

Narrow-Leaved Evergreens

Andorra juniper (*Juniperus horizontalis plumosa*). This plant offers a low spreading mass of light green

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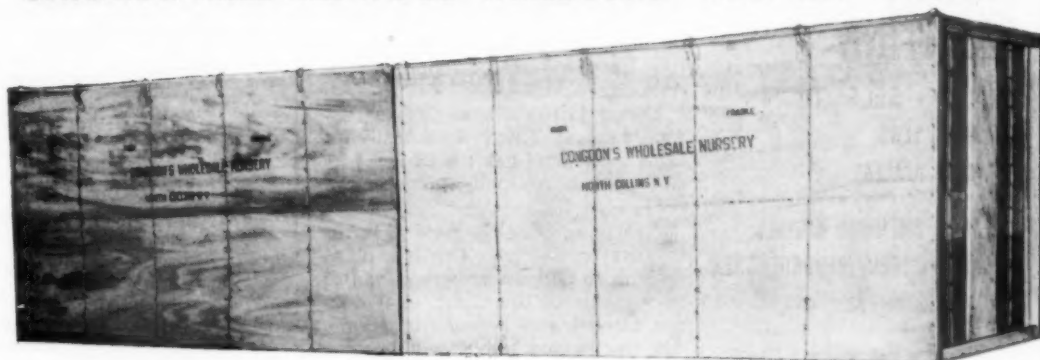
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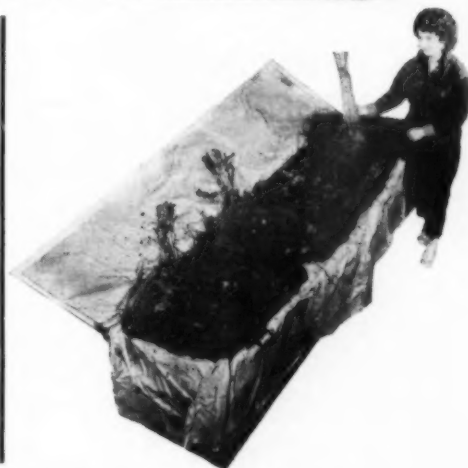
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foliage in summer, turning to a pleasing smoky purple in winter. This is a useful form that is difficult to duplicate in the genera. It should have full sun.

Hatfield yew (*Taxus media hatfieldi*). The spreading form is more pleasing than the upright in landscape plantings. It makes a good compact plant, even when 10 or 15 years old. It needs only "fingernail" pruning and should not be sheared into an artificial flat-topped specimen.

Dwarf Japanese yew (*Taxus cuspidata nana*). This yew naturally retains a compact habit because of its slow growth. Any long shoots should be headed back.

Spreading English yew (*Taxus baccata repandens*). This is a plant difficult to find. Its growth stays full to the base of the plant, so it does not catch leaves beneath it. (Some day the buying public will become willing to pay higher prices for these slower growing, highly desirable plants.)

The Sargent weeping hemlock (*Tsuga canadensis pendula*). Having a great deal of character, even though because of its ultimate size it does not have so many uses as taxus, this plant is suitable for larger buildings or by a free-standing wall.

Canada hemlock (*Tsuga canadensis*). Although it is commonly available in larger sizes, it is seldom found for sale as a small unsheared plant suitable for hedges. He recommended that these small-size plants should be sold more widely and priced in line with other quality hedge plants.

Vines

Two problems are presented by vines: (1) In the nursery they sprawl and must be sold while still young plants; (2) the giant vines, like wistaria and similar types, soon will tear down eavestroughs, arbors and other structural elements.

Five-leaved akebia (*Akebia quinata*). One of the more delicate vines, this plant will spread but can be pruned easily with a penknife. Its clean-cut foliage of dark green offers a pleasing sculptured pattern.

Low's Boston ivy (*Parthenocissus tricuspidata lowi*). It is a delicate vine and is extremely dwarf. There is need for more vines to cover an area 10 feet x 10 feet than there is for areas five times that size.

Baby wintercreeper (*Euonymus fortunei minima*). This plant has a small leaf (about one-half inch) and it will cling to a low wall; so it is good for modern houses. It has a scale problem, but this can be controlled with malathion.

Bower actinidia (*Actinidia ar-*

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Pot Size	Dimensions of Finished Pot	Price per 1000
1—Perennial Pot	4-in. diam., 4½ ins. high	\$18.50
2—Perennial Pot	4-in. diam., 5½ ins. high	22.50
3—Perennial Pot	5½-in. diam., 5½ ins. high	25.50
4—Mum Pot	6½-in. diam., 6¼ ins. high	34.50
5—Rose and Shrub Pot	8-in. diam., 9½ ins. high	43.50

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guta). A vigorous fast-growing vine, its foliage is dark green, leathery and attractive against a large masonry wall.

Henry honeysuckle (*Lonicera henryi*). This evergreen is easily kept to 15 feet or less. It is attractive on iron railings or a low wall.

Anemone-flowered clematis (*Clematis hybrida*). This plant offers a beautiful array of color. Some nurserymen force a few plants for display in a greenhouse, which helps to sell small potted plants that are just breaking into new growth.

Small Flowering Trees

Chinese flowering dogwood (*Cornus kousa chinensis*). Blooming in June, this plant produces an artistic flower that lasts almost a month. The showy flower is actually a bract, but it has a longer lasting quality than the delicate petal the normal flower has. The fall foliage also has a good color, but the plant is susceptible to early frost if located in a low area. The fruit of this plant makes a unique conversation piece as it is shaped like a strawberry. It is possible to obtain *Cornus kousa* with multiple stems. The result is a sculptured form that offers a pleasing pattern when the tree is not in flower.

White redbud (*Cercis canadensis alba*). This plant is preferred to the common redbud, since the white color is easier to use in landscape plantings than the magenta color of the type plant.

Star magnolia (*Magnolia stellata*). It does not grow so tall as the common saucer magnolia, and the leaf is smaller.

Golden chain (*Laburnum vossii*). This plant does better in the southern part of Connecticut than in the north; however, the past winter was mild, so that it flowered well in most sections of the state.

Sourwood (*Oxydendrum arboreum*). Having a good fall color, this plant also has interesting flowers in August. Another good feature is that few insects will eat the acid leaves.

Korean stewartia (*Stewartia korreana*). An upright tree, this plant is quite hardy, although sometimes the flower buds winterkill. Older specimens have an interesting mottled bark.

Shade Trees

American sweet gum tree (*Liquidambar styraciflua*). This is not too unusual a tree, but it is difficult to buy. It is commonly seen as a native in New Jersey, but it is also found wild in southwestern Connecticut. It has a good horizontal branching

[Continued on page 80]

Switch IMPLEMENTS in Seconds



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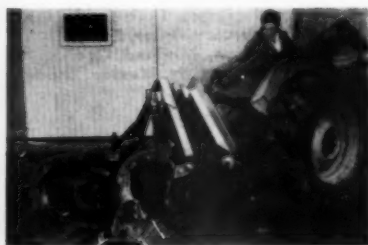
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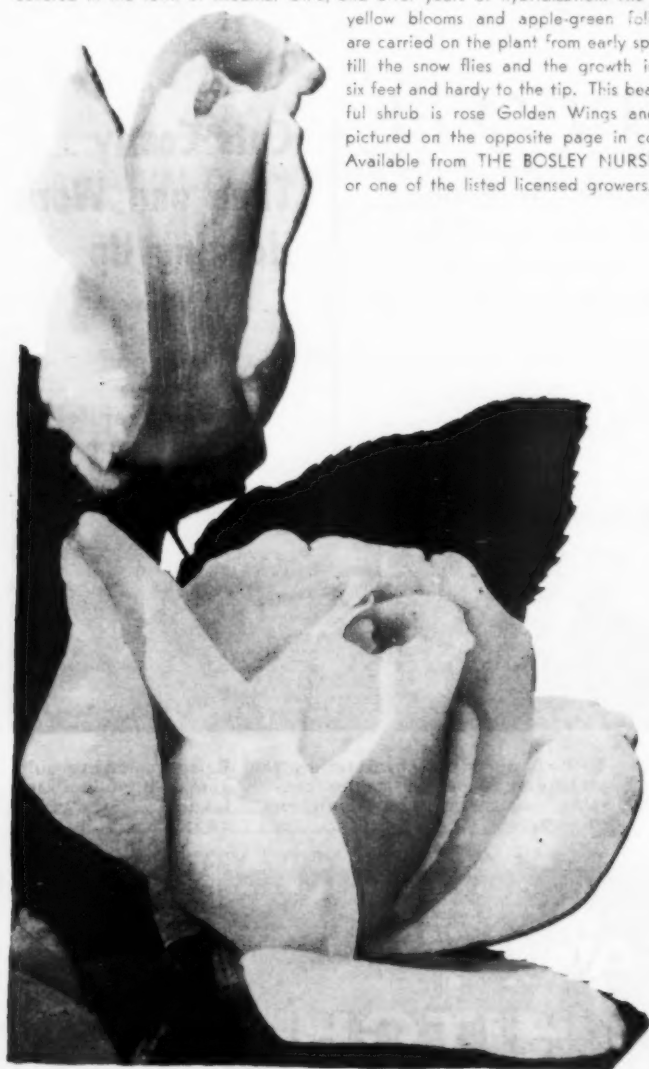


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Many years and thousands of dollars have been spent in the search for an ever-blooming shrub and at last this elusive shrub has been found. We wish it were possible to say that it was discovered in far-off Tibet by a Buddhist monk quite by accident, but this is not the case. This fabulous everblooming shrub was discovered in the town of Medina, Ohio, and after years of hybridization. The soft yellow blooms and apple-green foliage are carried on the plant from early spring till the snow flies and the growth is to six feet and hardy to the tip. This beautiful shrub is rose Golden Wings and is pictured on the opposite page in color. Available from THE BOSLEY NURSERY or one of the listed licensed growers.



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NURSERY

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Blossomtime (Pictured below)

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Everblooming Rose *Golden Wings*

(A shrub-like hybrid tea)
Plant Pat. 1419

Blossomtime

Plant Pat. 1240



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These are two of our new and fast selling line. J&P roses always sell because of the wide advertising and publicity effort put into it.

HYBRID TEA ROSE

Pink Duchess

Plant Patent #1834

Here is the Newest and the Richest colored pink of the Peace family descendants. The new Pink Duchess, with its strong plant, its rugged foliage, its penetrating color, and its sweet fragrance has a great future in store for it as the running mate with Peace. In the early stages, Pink Duchess is almost a bicolor. The large oval pointed bud has a golden color, this reverse color softens and gradually becomes suffused with the clean scintillating pink. The flowers are the true Peace form, but each 5 to 6 inch flower has 10 to 15 more petals than Peace. Shimmering, glowing, deep pink blooms have a luminescent quality that make it visible from far away. An excellent addition to the Hybrid Teas, a large full fragrant rose that blooms in abundance. A showy, glowing Rose.



TANYA

HYBRID TEA ROSE

Tanya

Plant Patent #1712

Lively, long, slender red orange buds open gradually in a most graceful manner . . . petals expand . . . the edges reflex back a bit . . . and finally an exciting new garden and show rose is born . . . a color entirely new is discovered in the garden. A seedling of the World Famous Peace Rose, Tanya has retained the large size of its illustrious parent's flower and its glossy deep green foliage, but it has a color which is distinct and different from any other. The color is beautiful at all times. The early morning sun particularly gives an iridescent sparkle to the glowing radiant orange, 5 to 5 1/2-in. blooms. Like Peace, it thrives well in all parts of the country.

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BADGE 32

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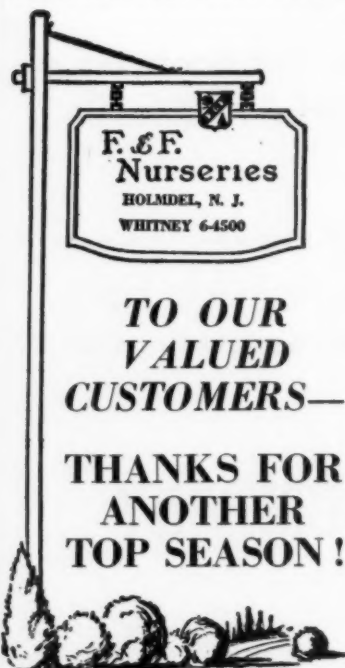
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PLANTS FOR LANDSCAPES

[Continued from page 74]

habit and presents a neat winter pattern. The fall color, arriving late, is extremely artistic with its mosaic of reds and golden yellows. It should always be moved with a ball of soil.

Japanese zelkova (*Zelkova serrata*). A medium-size tree that has been neglected, it somewhat resembles the elm in shape but has a smaller leaf and a better fall color. It is resistant to many of the insects and diseases that trouble the elm.

American yellowwood (*Cladrastis lutea*). A medium-size tree, it has a smooth beechlike bark. The June flowers in long, wistaria-like clusters are white. This tree requires growing conditions somewhat better than those that are tolerated by most other trees.

Korean mountain ash (*Sorbus alnifolia*). This tree is preferred to the European mountain ash. A deciduous tree in the medium-sized group, it also has a smooth, beechlike bark that gives winter interest. It has a simple rather than a compound leaf. Borers and leaf insects do not seem to bother this species. The fruit is not quite so showy as that of the European ash.

The Chinese scholar tree (*Sophora japonica*). Another medium-sized tree with green twigs, it has good foliage and flowers in the summer. The shade is not thick; so it is easy to grow grass under this tree. Being a legume, it will not rob the soil of all its nutrients, which is a needed condition for small Connecticut planting areas.

Katsura tree (*Cercidiphyllum japonicum*). In small to medium size, this tree is sometimes upright and sometimes globular but not a tight globular shape. Its foliage resembles the redbud's, although its leaf is not so large. It has a nice fall color.

Specialty Trees

Pyramidal European birch (*Betula pendula fastigiata*). Recommended as a columnar tree, it has white bark for winter interest. Limited planting areas, buildings with strong horizontal lines and other present-day factors have created a new interest in fastigate forms. Landscape designers are constantly looking for trees such as this.

Pyramidal English oak (*Quercus robur fastigiata*). This is recommended as being much better than the old Lombardy poplar for use where space is limited.

Columnar Norway maple (*Acer platanoides columnare*). Becoming the most readily available of the fastigate trees, it can be used as a

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street tree where narrow tree lawns and shallow setbacks are prevalent.

Trident maple (*Acer buergerianum*). It is one of the recommended Asiatic maples. The attractive dark, glossy leaf of summer is followed by a brilliant fall color of bright red.

Spider-leaved maple (*Acer palmatum ornatum*). Being propagated more frequently now, it grows only four or five feet high. The green-leaved forms of the Japanese maples have a color that is not so difficult to use as is the red-leaved type. This one has a beautiful deeply cut leaf.

Contorted Hankow willow (*Salix matsudana tortuosa*). This tree is easy to propagate and can be sold quickly. It has a limited use, but it has been observed in some high-class plantings.

Evergreens, Small to Medium

Umbrella pine (*Sciadopitys verticillata*) and cryptomeria (*Cryptomeria japonica*). These plants are strangers to most gardeners. The umbrella pine is not really a pine but more properly called sciadopitys. The long glossy needles are clustered at the end of the twig and flare out like the ribs of an umbrella. It is slow growing and rarely attains more than 30 feet in this country. It is compact, with a spread of about 10 feet. Its unique foliage makes an attractive addition to winter bouquets. Cryptomeria will grow taller but, again, makes a compact plant if grown in full sun. It is not so hardy as the umbrella pine, but it can be grown successfully as far north as central Connecticut. In an exposed place the foliage may discolor in the winter.

There are several pines that are more restricted in habit than the commonly used native white pine or red pine. The columnar white pine (*Pinus strobus fastigiata*) is narrow, requiring little space; unfortunately, it is not generally available in the trade. The Swiss stone pine (*Pinus cembra*) is of upright habit and is extremely hardy. Lacebark pine (*Pinus bungeana*) develops an interesting mottled bark on older specimens. The Japanese white pine (*Pinus parviflora*) is more wide spreading than any of the other plants that have been mentioned. However, it is less than half the size of the native white pine and is noted for its picturesque or "Japanesque" habit.

CACTUS CORNER is the name of the nursery recently opened at Portland, Tex., by Mr. and Mrs. W. N. Larkin and Mr. and Mrs. A. J. McKenzie.

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With every rose you get a thorn,
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Sole distributor of the rose **PARAMOUNT**
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P. S. Ask for Our Wholesale Evergreen List.

Propagation — Dollars and Sense

By Henry A. Weller

Although propagation has been practiced since almost the beginning of time and procedures have been basically the same, there are ways in which modifications can result in a better plant and greater yields, while actually decreasing cost. But I wonder how many of us are aware of or know how much a given item costs to propagate and grow. Do we know if it is profitable to keep certain items in our line?

Since I have kept accurate cost figures, I have eliminated approximately 10 varieties, simply because, no matter how I propagated these, they were not profitable to keep in the firm's line. This idea of keeping cost figures on every variety I grow might seem unnecessary to you, but in growing *Phlox subulata*, during one season, a loss of \$900 was shown. If I hadn't kept accurate cost records on this specific item, we would probably have continued to grow it the same way, year after year, with the loss being absorbed by the profit of another variety. Now we shall either have to find a more economical way of propagating and growing *Phlox subulata* or eliminate it from our line of growing.

Here is a brief explanation of our cost program. All expenses incurred from the time a cutting is taken until it reaches maturity are charged to that given variety. It requires a lot of time and effort to keep these daily records straight, but it gives us a picture of where and for what we are spending money. With this program we are able to determine (1) if an item is profitable to grow, (2) the most economical method of propagation and growing, (3) the cost to grow the item and (4) the sales price.

There are three phases of operation within our nursery where I feel we have been able to reduce cost considerably: Storage of rooted cuttings, weed control and mist propagation.

Storage of Cuttings

For seven years now, we have been storing cuttings under controlled refrigeration. This enables us to hold our cuttings in animation from

the time they are well rooted until time to plant in the field. By doing so, we are able to get two crops from the same greenhouse space. It is a case of taking the rooted cuttings out of the greenhouse instead of leaving them there until time to plant into the field. This idea of storing rooted cuttings was brought to our attention by the preliminary work done at Cornell University by Dr. William E. Snyder.

Bagged in Polyethylene

When the cuttings have initiated 1/2-inch roots in sand, they are fed with a water-soluble plant food every two weeks to increase vitality. After sufficient rooting, the cuttings are removed from the bench and sealed in polyethylene bags and then put in cold storage. The main point in

all of this is temperature control. Maintaining a constant 34 degrees for storage, we have been able to carry cuttings until such a time that we can plant them in the spring. This storage has been for as long as four months. The cuttings that we have successfully stored by this method are *Teucrium chamaedrys*, *Buxus sempervirens*, *Ligustrum vicaryi*, *chrysanthemums*, *asters*, *Euonymus vegetus* and *Euonymus fortunei*. This procedure has greatly reduced cost while increasing production and efficiency.

Costs Reduced

The storage of rooted cuttings under refrigeration, versus those put into coldframes, has reduced the total propagation charge by one third. What this means when dealing with

ORNAMENTAL EVERGREENS

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2-yr., S., 9 to 12 ins.	\$ 6.50	\$50.00
2-yr., S., 12 to 18 ins.	10.00	75.00
Row run, 9 to 18 ins.	7.50	60.00
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1-yr., S., budding size	6.00	50.00
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Those interested may obtain full information on activities of the society, membership dues, etc., by writing: Charles A. Young, Jr., Secy., Bergner Mansion, Baltimore, Md.

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Address, "Propagation — Dollars and Sense," given by Henry A. Weller, director of perennial production, nursery division, Commercial Enterprises, Inc., Newark, N. Y., at the meeting of the Plant Propagators' Society.

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This sensational limited "OFF SEASON" offer by manufacturer will really sweeten up your profit picture—if you act without delay! Here's your BIG CHANCE to enjoy the biggest dollar volume in your history. Our decision to manufacture these trees NOW is making this realistic down to earth offering possible.

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Minimum order 6 trees

Sample Tree—\$20.00

**NATURALLY OUR PRODUCTION IS LIMITED
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Shipments on "open account" made only to rated accounts. All others—checks in full. Deliveries subject to prior sale.

**FULL FREIGHT PREPAID ON ORDERS FOR 10
OR MORE TREES**

Stainless trees introduced for the first time late in 1958 retailed as high as \$97.50 each. And even at these prices popular acceptance was so overwhelming that it was impossible to fulfill the demand. All indications point to even **greater** demand for these beautiful stainless trees at these NEW popular low prices **this** year!

- ★ Stainless metal by famous Reynolds.
- ★ Tarnishproof—Keeps its brilliance.
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- ★ Safe, extra-hard aluminum alloy. Lifetime usage.
- ★ Height—6½ ft. Correct room size. Each branch 24 ins. long. Ample bushy.
- ★ Full bodied—Beautifully proportioned.
- ★ Sparkles like a diamond—Spectacular!

SPECIAL BONUS OFFER

FREE—100-piece re-usable plastic Christmas Decoration Set—packed with each tree if order is placed NOW! Remarkable PLUS value.

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2½-ft. with stand	\$ 3.00
3½-ft. with stand	5.00
4½-ft. with stand	9.00
7½-ft. with stand	22.50

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P. O. Box 3204 Merchandise Mart Chicago 54, Ill.



Illustrated—6½-ft. Tree.

- ★ Easy to assemble—Put up in minutes. Simple to disassemble for storage and use year after year.
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18 to 24 ins.	\$3.00
24 to 30 ins.	3.75
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SHADE TREES
Seedlings & Transplants
Ornamentals & Roses

Nurseries Indiana, Pa.
Dept. A P. O. BOX 670

approximately 300,000 cuttings can be well imagined.

The importance of maintaining a temperature of 34 degrees must be stressed. At one time, our refrigeration unit broke down, and the temperature went up to 38 degrees for a short period, resulting in some rotting and loss of foliage.

Weed Control Savings

The second phase of operation where we have been able to save money is weed control.

During the past 10 years that I have been with Commercial Enterprises, Inc., we have been keeping records of what it costs to keep our nursery relatively free from weeds. Up to 1954, we were spending approximately \$30,000 annually for hand weeding and cultivation. During that period, we tried every conceivable method of control. The results were disappointing, because whatever we tried seemed to control the plants as well as, or better than, the weeds. But, with some of the new herbicides, we have been able actually to cut our labor bill 40 per cent, in spite of continued increases in hourly wage. This 40 per cent reduction is based on an average of 140 acres. In the nursery business, I think that this field is wide open to a greater degree than it has ever been, because there are newer and better products coming out every day.

For our weed control program, we have been using 10 per cent granular Chloro IPC. We apply the Chloro IPC with a tractor-driven rotary seeder, at the rate of six pounds actual per acre, or 60 pounds of the 10 per cent material. When the chemical is applied just after planting in the spring, the first flush of weeds is controlled and hand hoeing is delayed by at least a month and a half.

Hand vs. Chemical Weeding

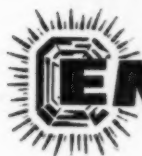
In actual figures, this is the comparison we get between chemical weeding and hand weeding:

It takes 15 minutes to treat an acre of ground by using the rotary seeder. After this application, it requires only an average of 48 man-hours per acre to keep it free from weeds for the rest of the season. This 48 hours compares with 160 man-hours required to keep an acre free from weeds, if not chemically treated. This gives us a saving of approximately \$200 per acre.

Some may wonder if we have had any injury to the plants by using Chloro IPC at the six pounds actual rate. In most instances the plants in the treated areas grew as well as those in nontreated areas. Of course,

ROUGHEST WINTER ON NURSERY STOCK!

but . . .
established



EMERALD EUONYMUS

came through without a trace of damage!

HOW HARDY CAN THEY GET?

Like other growers in New England, we took severe losses this winter on nursery stock which we'd always before considered "safe"—Mountain Laurel, Holly, Rhododendron, Andromedas, Leucothoe, Hemlock, Ilex, Arborvitae, Yews, White Dogwood. Early freezes and zero temperatures without snow caused constant and deep frozen ground which shut off the air and water. Literally thousands upon thousands of plants in nurseries and private gardens were killed throughout the area.

BUT . . . our established plants of EMERALD EUONYMUS — in open fields which exposed them to all the elements of weather that howl in over the rocky shores of northern Massachusetts—**came through without trace of damage!** It was the SUPREME TEST FOR HARDINESS!

IF YOU lost broad-leaved evergreen shrubs this winter, you should waste no time in stocking—or at **least** investigating—EMERALD EUONYMUS . . . the hardiest of them all!

FREE! NURSERY AND GARDEN CENTER SALES KIT

"PROFITABLE PROMOTIONS"



Designed to help you sell and make a full profit on EMERALD Euonymus. This kit contains: color brochures and postcards available for distribution to your customers; window banners; new consumer newspaper mats; full plant descriptions and our complete plan to boost YOUR SALES! Send for your kit today — for profits tomorrow!



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Write for Information

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Kelly Bros. Nurseries, Inc., Dansville, N. Y.
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- ☐ Please send me your "Profitable Promotions" sales kit.
☐ Please include my name as a garden supply dealer who will be handling EMERALD EUONYMUS this season.

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STREET _____

CITY _____ STATE _____

BY _____

GROWERS OF TOP-QUALITY NURSERY STOCK FOR OVER 35 YEARS

Fall, 1959 — Spring, 1960

Pyramidal Arborvitae	Each	Hetz Juniper	Each
2 to 2½ ft., B&B	\$1.75	18 to 24 ins., B&B	\$2.00
2½ to 3 ft., B&B	2.00	Taxus Cuspidata	
Globe Arborvitae		15 to 18 ins., B&B	2.00
15 to 18 ins., B&B	1.75	18 to 24 ins., B&B	2.50
Irish Juniper		Taxus hicksi	
2 to 2½ ft., B&B	1.75	15 to 18 ins., B&B	2.00
Compact Juniper		Plume Retinospora	
18 to 24 ins., B&B	2.00	15 to 18 ins., B&B	1.50

Also Other Varieties Not Listed.

You are cordially invited to visit our nursery and inspect this stock.

NELSON NURSERIES

Duncansville, Pa.

10 miles south of Altoona on Rt. 36

an application above the tolerance level of the plants will result in injury. As far as I know, there has never been any extensive testing done to determine the tolerance level of specific varieties of plants. We have found that four of the items we grow seem to be less tolerant than others. They are summer phlox, iberis, ajuga and Dianthus chinensis. By reducing the rate of application by one half, or three pounds actual per acre, we were able to get a degree of weed control, with no injury to the plants.

I might add that while Chloro IPC is our main weed control chemical, we are still not controlling all varieties of weeds with it. The product is too selective; thus we are continually searching for and testing other products, to find one better. We have been working closely with Dr. A. M. S. Pridham, of Cornell University, Ithaca, N. Y., for the past few years. He has accounted for the vital interest in and use of herbicidal weed control throughout the nursery industry of New York state.

Mist Propagation Techniques

Mist propagation has been influential in reducing our propagation cost. With mist, we have been able to get a higher percentage of cuttings to root, have been able to reduce the man-hours used and have had fewer losses in transplanting into the field. Like most nurseries, we were cautious in this new concept of propagation; so in 1953 we rooted only approximately 5,000 cuttings, using small quantities of many varieties for testing. We were so encouraged with the results that each year we have increased production to the point where we are now propagating approximately 400,000 cuttings, or 30 per cent of our annual total, under mist.

We now have 1,000 mist nozzles

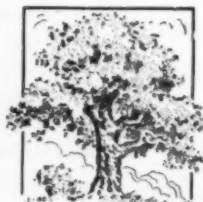
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	Each Per 100	Each Per 1000
Azalea mollis , true-to-color, well-budded, red and yellow, BUSHY, individually labeled, 10 to 12 ins.	\$0.85	\$0.75
Ampelopsis veitchi (Boston Ivy), No. 1, strong, 3 shoots and up, 2 to 3 ft. ....	.35	.32
Clematis , EXTRA-HEAVY liners ....	.40	.35
Jackmani, purple		
Lady Betty Balfour, purple		
Miss Bateman, large, white		
Mme. Le Coultre, very large, white		
Nelly Moser, mauve, middle large		
The President, purple, deep purple		
Ville de Lyon, best red		
Clematis shipped only in December.		
Kerria japonica flora plena , bushy plants, double yellow, well recommended, 15 to 18 ins. ....	.42	.35
Polygonum auberti (Silver-lace Vine), 2-yr., No. 1, 3 to 5 ft. ....	.55	.50

50 at 100 rate; 500 at 1000 rate. Minimum order \$100.00. Samples on request. 20% cash with order, balance C. O. D., or establish credit. Prices are F.O.B. New York, packing at cost. Request complete price list.

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Growers of Quality
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Hemlocks, Ferns, Wild Flowers
Trees, Shrubs

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Unit-engineered equipment matches the built-in brawn of International Utility tractors. Above, International Wagner loader and International Danuser scraper-scarifier on the six-cylinder 460 utility.

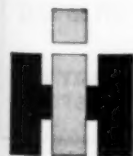
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Greater built-in weight for stamina and traction; a wider range of working and transport speeds! That's why users are earning greater profits with International® 340 and 460 heavy-duty Utility tractors!

And no wonder! The 61 hp* International 460 Utility with six-cylinder engine has the power and strength to handle 2,500 lb with front-end loader, gives up to 6,400 pounds drawbar pull. The International 340 Utility, with 45 hp*, four-cylinder engine handles 1,600 lb with front end loader. Both tractors can be equipped with Fast-Reverser for *five speeds in reverse* and five forward; or Torque Amplifier drive for *10 speeds forward*, two reverse. You'll out-push, out-load, out-perform them all with an International!

*Maximum flywheel hp.

Ask your IH Dealer to demonstrate either of these heavy-duty International Utility tractors—or the new International 240 Utility for the lighter range of work. For his name and specification folders, write International Harvester Company, Dept. AN-7, P.O. Box 7333, Chicago 80, Illinois.



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International Harvester Products pay for themselves in use—Farm Tractors and Equipment . . . Twine . . . Industrial Tractors . . . Motor Trucks . . . Construction Equipment—General Office, Chicago 1, Illinois.



Fast-Reverser unit gives reverse speeds in each gear 22 per cent faster than the forward speed. Here, the International 340 Utility is equipped with International Pippin loader and International Danuser blade.



Complete hydraulic control speeds up earthmoving with the International Danuser Terra-Scoop—load, lift, and transport a heaped $\frac{3}{4}$ cu yd. Scoop also scarifies and spreads. It can be reversed for backfilling.

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FOR WHOLESALE DISTRIBUTION IN NEW ENGLAND
12 to 15 Trailerloads

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 or write to:

Telephone:

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WESTON



PLANTLAND

South Ave., Rte. 30
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WHOLESALE EVERGREEN SPECIALISTS

spaced every five feet, which gives us an area of 25,000 square feet of bed space under mist. The over-all area is covered with two inches of 1/2-inch gravel for drainage. The beds are five feet wide and are edged with discarded railroad ties. The ties have already been weather-proofed with creosote and are heavy enough to stay in place without having to be staked.

We are using Florida-type nozzles, and we were quite satisfied with them. However, we found that by drilling the orifice to 1/16 inch, we are able to get better water coverage, with less clogging of the nozzles. When the size of the orifice is increased, more water is allowed to pass through, reducing the pressure. It is wise to check the pressure of the supply line before going ahead with this procedure.

The beds are controlled with individual timers and solenoids. The timers have a range from two minutes through one hour and, in addition to this, have a switch which can turn the individual line off, hold it on constant or set the timer in control. There was some drying around the outside of the beds, because of wind drift. We soon found that we had to put up wind baffles to keep the water where it was needed.

We have found that Terra-Lite works the best for our mist propagation, of all the rooting media available. The Terra-Lite gives good aeration and good drainage, even though we are applying great quantities of water. The Terra-Lite also has a tendency to cling to the roots during transplanting, keeping the roots moist.

Mist Values

The factors that make mist propagation ideal are:

1. The flexibility of timing. In

WHOLESALE GROWERS

B&B

Field Liners

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Seedlings

100 acres of evergreens for sale

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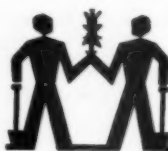
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LINING - OUT STOCK
 Growers of Spruce, Fir, Hemlock,
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PLANTS

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PIN OAK

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The Finest Obtainable

Norway Maple
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(Plant Patent No. 1748)
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London Plane Tree

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Green Ash
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European Linden
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And many other popular varieties.

We also produce a very complete line of shrubs, evergreens, hedge plants, vines, ground covers, etc.

Be sure to visit our nursery when at the convention.

We are located about one-half way between Philadelphia and New York on U.S. Highway No. 1

At Philadelphia See Badge 17

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Princeton, N. J.

PENNSYLVANIA EVERGREEN SEEDLINGS

Our past, pleasant business dealings have been greatly appreciated and we hope to continue to serve you with quality stock.

IT PAYS TO BUY THE BEST

SCHROTH'S NURSERY

Indiana, Pa.

our experience, cuttings can be taken over a longer period of time with excellent results. We can take cuttings earlier in the year.

2. Using flats and storage boxes that are normally put away for the summer is an advantage, in that the cuttings can be moved directly to the field in their growing boxes. This means the cuttings do not have to be pulled until the last minute before they are to be planted into the ground.

3. The rooted cuttings are fed through the mist line, saving us the time and labor of hand feeding. We use a water-soluble fertilizer containing the three basic nutrients and trace elements. By doing this, we increase the growth and vitality of the cuttings, so that they can be transplanted the same season that they are taken. Transplanting the same season, rather than waiting until the following spring, allows one to plant at a time when there is no rush period. It gives a better and larger plant at the end of the normal 2 or 3-year period of growth. And, in many cases, one is able to grow a salable plant in one year's less growing time.

The advantages of mist propagation also are numerous in many small ways. We have found that, in most cases, it does not make any difference whether the cut is made above or below the node. This enables us to cut a handful of cuttings at one time with a pair of pruning shears. In our testing, we have not found any advantage to using hormones under mist. And there is no need for the constant vigilance that is required with any other method of propagation.

Crops Responsive to Mist

The varieties we propagate under mist in full-scale production are *Euonymus fortunei* and two new *euonymus* hybrids, *Winter Glory* and *Winter King*; *Buxus sempervirens*; *Mahonia aquifolium*; *pachysandra*; *Vinca minor*; *chrysanthemum*; *Plumbago larpendae*; *Ligustrum vicaryi*, and *Philadelphus virginialis*.

DWARF FRUIT TREES

We offer a complete assortment of Dwarf Peach, Pear, Plum, Apple and Cherry. A full line of Standard Fruit Trees, Ornamental Shrubs and Trees.

Send for our wholesale catalog today.

Growing Since 1880

KELLY BROS. NURSERIES, INC.
Dansville, N. Y.

DWARF FRUIT TREES

1, 2 and 3-year-old dwarf and semidwarf Apples. Grafted on Malling stocks, II, VII and IX. These are hardy, northern-grown trees.

We have specialized solely in dwarf trees for the last 30 years in this country.

Write for our wholesale list No. 2.

ALSO ESPALIER-TRAINED FRUIT TREES

HENRY LEUTHARDT NURSERY
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FOR 57 YEARS

Our business has been growing
Rhododendrons
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Perennials, Roses
All Nursery Items
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SEEDS OF ALL TYPES

HERBST BROTHERS SEEDSMEN, INC.
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Apple, Peach, Pear,
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VANDER POL TREE PEONY GARDENS
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Telephone: NEWton 4-3400

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25 miles north of Chicago, Ill.

We offer the following list of choice nursery stock at favorable, competitive prices.
All of our material list is **First Class** in every respect and several times transplanted.

TREES

Acer platanoides 2 to 2 1/2-in. cal.	Each \$ 7.00	Crataegus cordata 8 to 10 ft., B&B	Each \$12.00	Malus Sundog 6 to 7 ft., B&B	Each \$ 7.00
2 1/2 to 3-in. cal.	11.00	10 to 12 ft., B&B	20.00	Phellodendron amurense 2 to 2 1/2-in. cal.	7.00
2 1/2 to 3-in. cal., B&B	22.00	Crataegus crusgalli 6 to 8 ft., B&B	12.50	Platanus orientalis 3 to 3 1/2-in. cal., B&B	35.00
3 to 3 1/2-in. cal., B&B	27.50	8 to 10 ft., B&B	22.50	Prunus padus 10 to 12 ft., B&B	12.00
Acer platanoides columnare 1 1/2 to 2-in. cal.	6.75	Crataegus lavallei 2-in. cal., B&B	17.50	Prunus pendula. OWN STEM 8 to 10 ft.	5.00
Acer rubrum 2 to 2 1/2-in. cal.	9.50	Crataegus oxyacantha 6 to 8 ft., B&B	10.00	Quercus palustris 1 1/2 to 2-in. cal.	7.50
2 1/2 to 3-in. cal.	13.75	8 to 10 ft., B&B	12.75	3 to 3 1/2-in. cal., B&B	37.50
2 1/2 to 3-in. cal., B&B	24.50	Crataegus oxyacantha plena TREE FORM 2 1/2 to 3-in. cal., B&B	22.50	Quercus rubra 1 1/2-in. cal.	7.75
3 to 3 1/2-in. cal., B&B	30.00	Crataegus toba 5 to 6 ft., B&B	6.00	2 to 2 1/2-in. cal.	12.50
Acer saccharinum 2 to 2 1/2-in. cal.	6.00	Fraxinus lanceolata 8 to 10 ft.	2.00	2 to 2 1/2-in. cal., B&B	19.50
Acer saccharum 1 1/2 to 2-in. cal.	8.75	6 to 8 ft.	1.50	2 1/2-in. cal., B&B	30.00
2 to 2 1/2-in. cal.	10.50	Fraxinus quadrangulata Western 2 to 2 1/2-in. cal.	12.00	Sorbus americana 1 1/2-in. cal.	6.50
Acer schwedleri 1 1/2 to 2-in. cal., B&B	8.75	Gleditsia inermis, special budded 1 1/2 to 2-in. cal.	6.50	Tilia americana 2 to 2 1/2-in. cal.	8.75
Acer schwedleri Crimson King 1 1/2 to 2-in. cal.	10.00	Gymnocladus dioica 1 1/2 to 2-in. cal.	6.00	2 1/2-in. cal., B&B	24.00
2 to 2 1/2-in. cal.	15.00	Juglans cinerea 3 to 3 1/2-in. cal., B&B	22.50	Tilia cordata 1 1/2 to 2-in. cal.	7.75
Alnus cordata 6 to 7 ft.	4.00	Liriodendron tulipifera 2 to 2 1/2-in. cal.	8.00	2 1/2 to 3-in. cal., B&B	25.00
Betula alba 2-stem, 10 to 12 ft., B&B	17.50	2 to 2 1/2-in. cal., B&B	13.50	3 to 3 1/2-in. cal., B&B	37.50
2-stem, 10 to 12 ft., B&B	24.50	Magnolia stellata 4 to 5 ft., B&B	10.00	Ulmus chinensis, BUSH FORM. HEAVY 8 to 10 ft.	1.75
Betula lacinata 1 1/2-in. cal., B&B	9.00	Malus Echimomayer 1 1/2-in. cal., B&B	7.00	Ulmus Moline 1 1/2 to 2-in. cal.	4.75
Betula lutea 2 1/2 to 3-in. cal., B&B	22.50	Malus Hops. HEAVY 8 to 10 ft., B&B	8.50	2 to 2 1/2-in. cal.	6.50
Celtis occidentalis 2 1/2 to 3-in. cal.	14.00	Malus Strathmore 6 to 7 ft., B&B	7.00	2 1/2 to 3-in. cal.	9.75
2 1/2 to 3-in. cal., B&B	25.00			2 1/2 to 3-in. cal., B&B	22.00
3 to 3 1/2-in. cal., B&B	32.50			Ulmus racemosa 1 1/2-in. cal.	7.50
Cercidiphyllum japonicum 8 to 10 ft., B&B	8.00				

SHRUBS

Acanthopanax pentaphyllum 3 to 4 ft.	Each \$0.60	Euonymus alatus 3 to 4 ft.	Each \$1.50	Potentilla, White 2 1/2 to 3 ft.	Each \$1.00
Berberis atropurpurea 2 1/2 to 3 ft. ....	.55	5 to 6 ft., B&B	5.50	2 1/2 to 3 ft., B&B	2.50
Berberis thunbergii 2 1/2 to 3 ft. ....	.45	Euonymus alatus compactus 3 to 3 1/2 ft.	2.00	Prunus cistena 3 to 4 ft. ....	.65
Cotoneaster acutifolia 2 to 3 ft. ....	.45	Forsythia, dwarf 18 to 24 ins. ....	.50	5 to 6 ft.	1.25
Cornus alternifolia 4 to 5 ft. ....	.80	Forsythia, upright 3 to 4 ft. ....	.55	Prunus triloba 3 to 4 ft. ....	.85
Cornus lutea 2 to 3 ft. ....	.50	Hydrangea P. G. 3 to 4 ft. ....	.60	Rhus lacinata 4 to 5 ft. ....	.85
4 to 5 ft. ....	.70	Ligustrum amurense, HEAVY 2 to 3 ft. ....	.15	Ribes alpinum 24 to 30 ins. ....	.55
Cornus mas 5 to 6 ft.	1.50	3 to 4 ft. ....	.18	Rosa eglanteria rubiginosa 2 to 3 ft. ....	.40
6 to 8 ft., B&B	6.25	5 to 6 ft. ....	.40	Rosa lucida virginiana 2 to 3 ft. ....	.40
8 to 10 ft., B&B	8.75	Lonicera pileata yunnanensis 2-in. pots .....	.17	Salix discolor 3 to 4 ft. ....	.45
Cornus paniculata 4 to 5 ft. ....	.50	Lonicera sabeli 3 to 4 ft. ....	.40	Spiraea prunifolia 4 to 5 ft. ....	.65
Cotinus coggygria 6 to 8 ft., B&B	5.00	Philadelphus aureus 2 1/2 ft.	1.00	Spiraea froebeli 2 1/2 to 3 ft. ....	.70
Cydonia japonica 3 to 4 ft. ....	.55	Philadelphus coronarius 4 to 5 ft. ....	.50	Syringa japonica 6 to 7 ft., B&B	9.00
Deutzia lemoinei 18 to 24 ins. ....	.45	Philadelphus virginialis 4 to 5 ft. ....	.60	Syringa persica 5 to 6 ft. ....	.70
Elaeagnus angustifolia 3 to 4 ft. ....	.55	Physocarpus monogynus 2 to 3 ft. ....	.35	Viburnum dentatum 3 to 4 ft. ....	.55
4 to 5 ft. ....	.70				

EVERGREENS

Juniper. Andorra 2 to 2 1/2 ft., B&B	Each \$ 4.00	Pinus nigra 6 to 7 ft., B&B	Each \$17.00	Thuja occidentalis nigra 2 1/2 to 3 ft., B&B	Each \$ 3.25
Juniper. communis aurea 2 1/2 ft., B&B	6.00	Pinus ponderosa 6 to 8 ft., B&B	11.00	5 to 6 ft., B&B	5.50
Juniper. cupressifolia 6 to 7 ft., B&B	15.00	Pinus strobus 6 to 7 ft., B&B	16.00	7 to 8 ft., B&B	12.00
Juniper. heterophylla 2 1/2 to 3 ft., B&B	4.00	Pinus sylvestris 3 1/2 to 4 ft., B&B	6.00	Thuja pyramidalis 3 to 4 ft., B&B	3.00
24 to 30 ins., B&B	3.00	Taxus capitata, seedling type 2 1/2 to 3 ft., B&B	7.00		
Juniper. japonica 18 to 24 ins., B&B	4.75	3 to 3 1/2 ft., B&B	9.00		
Juniper. Pfitzer aurea 2 1/2 to 3 ft., B&B	6.00	3 1/2 to 4 ft., B&B	11.00		
Juniper. sargentii 18 to 24 ins., B&B	6.50	Taxus cuspidata 2 to 2 1/2 ft., B&B	5.00		
Picea pungens viridis 4 to 5 ft., B&B	8.25	Thuja globosa 18 to 24 ins., B&B	2.00		
		2 to 2 1/2 ft., B&B	2.50		

BROAD-LEAVED EVERGREENS

Euonymus vegetus 18 to 24 ins., B&B	Each \$2.25
2 to 2 1/2 ft., B&B	2.75
Buxus korera 18 to 24 ins., B&B	4.00

If cash accompanies orders, you may deduct 5% from your total order. Otherwise, terms are net 30 days. On all accounts 30 days past due, there will be a charge of 6% as interest charge per month.
This offer is for a limited time only. Orders are taken subject to stock being unsold at time orders are received.
These prices are canceled at the time our catalog is published, which usually is in August.
Write for our seasonal catalog or send us your want list for other items not published here.
Order in bulk, as there is no charge to load trucks or truck trailers. Packing charges at cost. Railroad freight car loading—a 5% additional charge is added per item.

ON YOUR SUMMER MIDWEST NURSERY TOUR STOP TO SEE BERRYHILL NURSERY

In West Central Ohio—The Miami Valley Area

Scarff's, Spring Hill, Hill Top, Siebenthaler's and Natorp's are also not far away, if you will make a real tour of it.



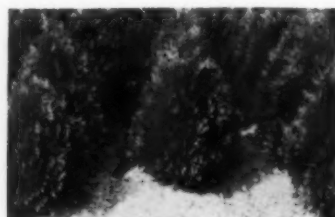
PYRAMID ARBORVITAE

These liners, like our Globes, Pfitzers, Taxus, are heavy.



TAXUS INTERMEDIA BERRYHILLI

Sheared, B&B specimens. 15 to 18 ins. and 18 to 24 ins.



**DARK GREEN
AMERICAN ARBORVITAE**

Grown the extra year for "heft," 3 to 5 ft.

EVERGREENS AND SPECIALTY SHRUBS

Arborvitae
Juniper
Taxus

Cotoneaster apiculata
Euonymus alatus compactus
Euonymus Sarcocoe

Quality Growers on 350 Fertile Acres

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BERRYHILL NURSERY CO.

4½ miles northeast of SPRINGFIELD, OHIO, on State Route 4

P. O. Box 696

Phone: FA 2-4421

Some varieties we have had under testing and that have shown good results are *Cytisus scoparius*, *Viburnum carlesii*, *Taxus cuspidata*, *Juniperus hetzi*, *Rhus cotinus atropurpurea*, *Berberis atropurpurea*, *Pachistima canbyi* and *Philadelphus aurea*.

I feel that mist propagation has contributed more to the nursery industry than any other form of advancement. The potential is beyond comprehension. The storage of cuttings under refrigeration has decreased our handling and has made our greenhouse more efficient. Our weed control program has enabled us to reduce our labor cost by 40 per cent.

By rooting more of our cuttings under mist, we have been able to re-

duce our propagation cost. This was all brought about by keeping accurate cost figures on all phases of our operation. So, being aware of the cost of propagation and doing something about it are just as important as the know-how of propagating.

FIRM'S CENTER THRIVES

The garden center opened by D & D Gardens, Eatontown, N. J., has enjoyed a successful first year of operations, report owners Jack Dirkse, a rose grower for nearly 40 years, and his wife, Delia. The firm pots its own roses, which are now almost exclusively sold in the retail shop.

The room at the front of the shop is paneled in knotty pine and dec-

orated with colonial fixtures. Here potted indoor plants, insecticides and garden supplies are displayed. In a corner of the room a space is provided for meetings of garden clubs.

Bulbs and rose variety charts are displayed in the room adjoining, and customers have an opportunity to select roses from color illustrations. The firm is presently laying out a living plant catalog, which should be completed next summer. A cold storage room, which has the capacity to keep 25,000 dormant rose plants, is located at the rear of the room.

Mr. and Mrs. Dirkse are members of the American Rose Society, the North Jersey Rose Society and the West Jersey Rose Society and recently hosted a tour of their growing fields for the last-named group.

Fruit & Nut Trees
 Flowering Trees
 Shade Trees
 Grapevines
 and
 Field & Container
 Ornamentals

Whatever Your Needs . . . See *Stribling's* First!

Quality . . . variety . . . service.

You expect and *get* all three, when you order Stribling's stock. Our 48 years of experience in developing Growing Quality* nursery products . . . our 800 acres of growing grounds in the heart of the famed San Joaquin Valley . . . our tightly-gear'd shipping department . . . these are your guarantees of complete satisfaction.

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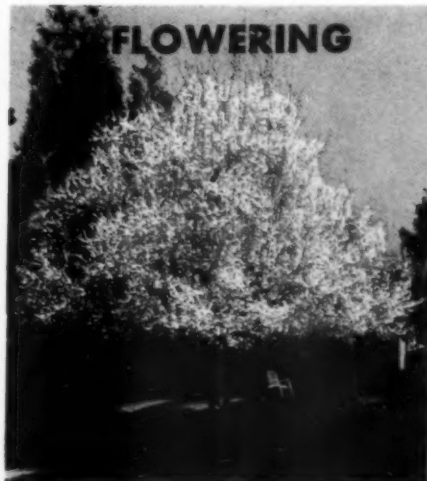
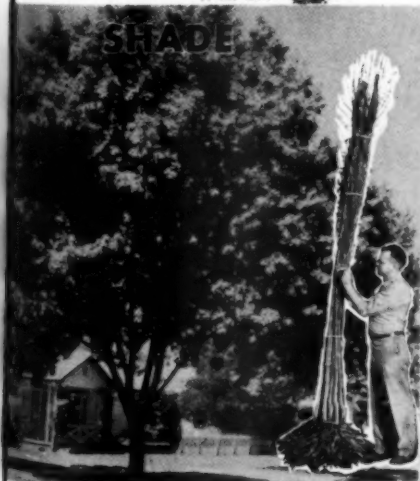
Write today for your free supply of these hard-selling, 4-color wall posters and mail pieces:

Stribling's Shade
 & Flowering Trees
 Stribling's Tree-O*
 3-in-1 Fruit Trees

Also available without cost is our new illustrated Grape & Fruit Descriptive Bulletin and price list.

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"A New Elm Is Born"

Modern as tomorrow, this new elm (see chromosome count below) is fast becoming a favorite of landscape planners. The AUGUSTINE ASCENDING ELM is being specified in more and more civic, commercial and residential plantings every day. This is the tree to sell with confidence for every landscaping purpose . . . and it is priced for you to make a handsome profit.

- **Beautiful appearance**
neat, narrow, upright—a graceful modern look.
- **Perfect repetition of shape and habit**
produced by vegetative method.
- **Allows the grass to grow right up to base of trunk**
narrow, columnar structure—sun gets to grass.
- **Unusually rapid growth**
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- **Negligible loss through tree plagues**
proved by science and experience.
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Dr. Beal's drawing of chromosomes from root cells of Augustine Ascending Elm.



Baby Augustine Ascending Elm trees that will become real enhancements to the landscape, like those pictured above, are now available for growing on. They are shipped to you ready for quick and easy planting out. Be ready to meet specifications for this truly outstanding tree in your area. Increasing popularity has caused a limited supply . . . write for purchase information and prices today.



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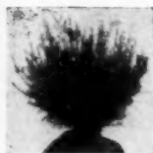
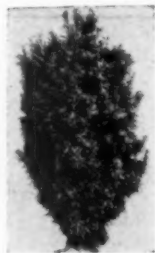
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Specimen Plants for
Landscaping
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Excellent Color—
Solid Clay B&B

We invite you to visit our nursery, otherwise check Trade List for varieties and prices.

Hand dug with
solid clay ball.



LINING-OUT STOCK

Well-Grown and Well-Rooted

Deciduous

Crimson Pygmy Barberry
Vicky Golden Privet
Kolkwitzia amabilis
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Heavy, 2 and 3-year Transplants
Boxwood, Hardy
Edging Types
Taxus capitata, Hicksi, hunnebelliana
Woodward Globe Arborvitae

ORNAMENTAL SHRUBS

Crimson Pygmy Barberry
Most popular and colorful low hedge and edging plant. Excellent for planters.
Cornus elegantissima
Red twigs, silver variegated foliage.
Hamelis vernalis (Winter-Flowering Witch Hazel)
Hypericum kalmianum (Pot o' Gold)
Completely hardy in field, winter 1958-1959.
Philadelphus aurea (Golden Syringa)
Red Cydonia, Scarff's upright strain.
Bright red, practically thornless.
Syringa microphylla (Little-Leaved Lilac)

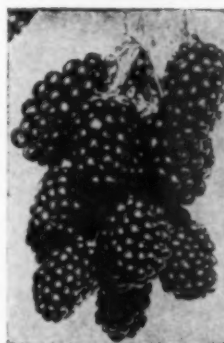
FORSYTHIAS — LONICERAS — VIBURNUMS — In Variety
(Complete assortment 250,000 shrubs, heavy 2 and 3-yr., field-grown)

25,000 container-grown shrubs, trees, vines and roses — all specimen plants for sale at the nursery only — not for shipment.



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NEW 'MIDNITE' BLACKBERRY



Introduced because of its large, high-quality berries; its fine fruiting performance and strong, upright, thrifty cane characteristic in comparison to other blackberry varieties.

FRUIT TREES

Apple — Peach

Complete assortment of the best standard and dwarf varieties.

SMALL FRUITS

Complete List of Berry Plants

Raspberries — Blackberries
Blueberries
Currants — Gooseberries
Thornless Boysenberry
Asparagus — Rhubarb

See Our Representatives Jim and Bill Scarff at the Philadelphia Convention.

NORTH CAROLINA TOUR

[Concluded on page 22]

ing new uses for existing products; (2) assisting customers in making the best use of nursery products by providing the necessary technical service and means for demonstrations of DuPont products; (3) evaluating new DuPont products and competitive products, and (4) providing the necessary research guidance for other laboratories by defining end-use deficiencies of present products and by establishing requirements for new products.

Next the touring group visited the Chestnut Run sales service laboratory of the firm where movies were shown and talks were given on new and some not-so-new agricultural chemicals.

Rose Growing Viewed

The group's next visit was to the branch of the Conard-Pyle Co., located 17 miles north of Wilmington, on Route 1. One of the most outstanding features there is the "liv-

ing catalog," where roses of each variety listed in the firm's catalog are grown for display so that the customer has ease in comparing characteristics.

The Hagley Museum which the group visited Wednesday morning, June 10, was a pleasant diversion from the horticultural interests seen. This museum is devoted to the industrial history of the United States. Concentrating on the Brandywine valley, its exhibits are designed to show how the diversity of mills that drew their power from this small river in colonial and early federal periods epitomized the beginnings of industry throughout the nation.

Longwood Gardens

A fitting climax to the tour came Wednesday afternoon and evening, when the nurserymen visited Longwood Gardens, Kennett Square, Pa. Dr. Huddleston guided the group around the grounds and greenhouses. After dinner, at which the visitors were guests of E. I. duPont de

Nemours & Co., Inc., Dr. Walter H. Hodge, head of the department of education and research, Longwood Gardens, showed slides and discussed the importance of plant exploration. The group later enjoyed viewing the fountain display at the gardens.

Thursday, June 11, the touring group left the DuPont hotel at Wilmington early in the morning, arriving at Raleigh around 4:30 p. m.

No definite plans have been made for next year, but there is consideration of visits to Tennessee, Alabama or Florida.

MOVING of the Camden Nursery & Florist Shop to a recently purchased site of six and one-half acres at 282 North Main street, Camden, O., is planned by the owners, Mr. and Mrs. Harold Browning.

ADDITION of a garden shop was made recently at the Cohagen Hardware, 4000 East Broad street, Columbus, O. H. E. Schmidt and R. F. Wyant are partners in the firm.

Problems of the Nursery Industry

Reported by Kenneth Bradley

There is no other business that spends so much money in the face of such a risk as does the nursery business, stated John J. Pinney, Willis Nursery Co., Ottawa, Kan., in his opening remarks to Connecticut nurserymen at a short course held earlier this year at the University of Connecticut, Storrs. For instance, he continued in his talk, entitled "Prices and Profits," if a nurseryman grows a group of Canaert junipers from seeds and after a 10-year struggle finds that the demand for them is gone, the crop is almost a complete loss. Nurserymen are bigger gamblers than farmers, because the latter may have a crop loss one year but can begin over again the next year.

What the nursery business needs more than almost anything else is a merchandising campaign, because the general buying public does not spend a great enough percentage of its home investment dollar for improving grounds. The amount spent on landscaping is extremely small compared to what homeowners spend on the home and its furnishings. Plant propagators are doing an excellent job in producing more plants, but those in the selling end of the business are not producing a market for all of these fine plants.

Need for Market Research

There is a great need for market research in the nursery industry. Few surveys have been made on what the public wants in nursery stock or on how customers want to buy it. Research is also needed in the development of new plants. With the current changes in architecture, different types of plants are needed, principally among the dwarf and semidwarf forms. Determining the hardiness zones for plants is difficult and cannot be done without experimentation. In spite of the progress that has been made so far in outlining hardiness zones, there still is not enough available information on the subject.

Not enough is known about soils and fertilizers for nursery stock. For example, all nurserymen who grow container stock do not recommend the same soil mixture; consequently, for container growing, nurserymen are not certain what the best soil is for some plants. Less is known about fertilizers, and even specialists in the field will admit that fertilizing pro-

grams for woody plants are mostly guesswork.

The need for more and better machinery demands another kind of research in the industry. The nursery business is relatively small as a market; so big industries are not interested in developing machines for it. Machines needed must therefore be developed within the industry.

Another need for research is retail advertising. With gardening listed as the No. 1 hobby of the nation, the nursery business is scarcely beginning to place its products before the buying public in an adequate way. Ads in garden magazines feature many allied lines, but plants themselves, which create the market for all the dry lines, receive scant attention.

Personnel Problems Apparent

Problems of personnel are apparent when it is noted that the nursery industry is not attracting enough young men into the field. The attempts of nurserymen to hire good plant propagators, trained landscape

architects or nursery managers often meet difficulty. The nursery trade needs more college-trained men. Among those who do graduate with this training, usually only those who grew up in the business go back into it.

Two important reasons for this situation are that nurserymen do not make known the advantages of the business to the young people and the industry does not offer high enough salaries. Promotion should start with boys and girls in high school and continue through college, so as to acquire the superior graduates. Fifty per cent of the personnel in the industry should be brought in from families who are not already in the business.

There is a great difference between the low starting salaries offered in the nursery industry and the salaries offered in other fields that require the same amount of time for preparation. This is also true for those who learn the nursery trade through the apprentice system. They cannot command so high

THE KALLAY BROS. CO.

1251 Madison Ave.
Painesville, Ohio

Wholesale



Nurserymen

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EVERGREENS, SHRUBS AND TREES

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TWO GENERATIONS OF SERVICE TO THE WHOLESALE
NURSERY AND LANDSCAPE INDUSTRY

Evergreen Specialists

Now Offering Our Customers a Variety
of Young Taxus in Quantity

Inquiries and Personal Inspection Welcome

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KEIDING ART-POTS

THE KEIDING POTS

POT LASTS FOR MONTHS WHEN KEPT
ON GRAVEL — EASILY AND NEATLY
PLACED IN CUSTOMER'S CAR
PLANT POT AND ALL — POTS
DETERIORATE WHEN PLANTED

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JIFFY "JR." TRACTOR

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Long Lake, Minn.

95 YEARS OF SERVICE SINCE 1864

The Evergreen Nursery Co. has served the industry continuously for the past 95 years. Same family — same place, with third and fourth generation now operating. We are proud of it!

All this time we have specialized in lining-out evergreens and now carry an inventory of about 25 million trees. In recent years, we have been growing an ever-expanding list of deciduous liners. Growing experience of this kind helps us produce quality stock at reasonable prices — and more profit for you.

WRITE FOR COMPLETE LIST

EVERGREEN NURSERY CO.

Sturgeon Bay, Wis.

Established 1864

FINEST QUALITY PERENNIALS!

250 varieties of popular
and rare plants in whole-
sale quantities

Member of:
American Association of Nurserymen
Ohio Nurserymen's Association
Lake County Nurserymen's Association

**Oriental Poppies
and Dwarf Iris**

ready late July.
Order now!

Write for our new descriptive catalog.

2559 Mentor Ave.

Bentley's **HARDY PLANTS**

Mentor, Ohio

a salary, even after a number of years spent in the business, as young men do with only a few months' experience in one of the other trades.

It is improbable that anyone knows exactly what percentage labor constitutes in the cost of nursery stock, but it is assumed to run all the way from 65 to 85 per cent. The wages paid in the nursery industry during the past 40 years have risen from \$1.50 for a 10-hour work day to 25 cents an hour during the 1920's, through the base minimum of 35 cents an hour established by the wage-hour law during the 1930's, to the minimum wage of \$1 an hour established by the present law. The wage scale is going to continue to climb, and even though nurserymen may not pay the highest going wage,

they are directly affected, because they have to compete in the labor market.

Production Costs Rising


All items used in the production of nursery stock are increasing in cost. For example, a particular spade that cost \$3.50 in 1930 today sells for \$10. In comparison with all these other price rises, the price of nursery stock has not increased comparatively. The prices of trucks, dusters, planters and all similar items have also increased, and this equipment is expensive to maintain since it is used only seasonally. It is necessary to have, but it keeps capital tied up all year, for only a few weeks' use. A nurseryman's capital investment does not work for him the

year around as in the other industries. Transportation costs, including freight, parcel post, third-class rates and express rates, have also risen.

Merchandising and advertising costs are rising. The cost of general overhead is going up, too, but some nurserymen may not take the time to itemize it. However, it is an important part of the business operation and includes all items ranging from buildings and rentals, through employees, office machinery and equipment, utilities and taxes, to insurance and workmen's compensation. Despite advances in cost accounting, no one has come up with a practical system for the nursery business, except for those who only grow one or two items. Even though such a system could



BIG NEWS FOR NURSERYMEN

Another nursery cost reduced — another nursery chore made easier by 

Accurately measures and applies **any** amount of dry fertilizer from 1/2 to 3 rounded teaspoons.

Long feeder tube insures placement of food where **you** want it — in the container.

Airtight cover on hopper keeps fertilizer dry, usable, until it's on container soil. Hopper holds up to 20 lbs., depending on type of materials used.

Rapidly dispenses **any** suitable pelletized, or coarsely granular, fertilizer mixture.

Price **\$39.50** F.O.B. factory. (packaged weight under 7 lbs.)

To order, just ask for the FMD — There's only one, so no mix-up possible.

The FMD is a precision tool — precision built for the nurseryman who cares about his plants, by the firm which cares about reducing nursery costs.



(Patent Pending)

Ayer-Line's Nursery FAMOUS CAN TOOLS • Every one a proven cost cutter

The Multiple Punch



Makes 4 drainage holes in 1 stroke. Positive drainage holes on sides, continue to floor level.

Price: **\$48.00**, model A

42.25, model B

(Model B has foot lever, only)

The Handy-Man Gripzit



Grips 2 cans or one and holds like a bull dog — no trick sets or releasers. Lets go when the weight is set down.

Price each, **\$3.20**;

2 to 5 each, **2.90**.

The Redhead Can Shear



Nearly 30,000 of these are out now — they speak for themselves.

Price, **\$7.00**; 3 for **\$18.75**. All prices F.O.B. Berkeley.

PLEASE ORDER THE ABOVE CAN TOOLS FROM JOBBER NEAREST YOU:

(Asterisk (*) after some names mean that these also stock the FMD)

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All tools shown above (and many other laborsavers) are made and guaranteed by

Ayer-Line INDUSTRIES, INC.

709 Jones St., Berkeley 10, CALIF.

PLEASE NOTE: Many of our items have been imitated — insist on seeing label at right. We cannot take in the imitations for repair under guarantee.



ROSES

Current A. A. R. S. Winners

GARDEN PARTY

(Plant Patent No. 1814)

FIRE KING SARABANDE

(Plant Patent No. 1758)

(Plant Patent No. 1761)

And your OLDER FAVORITES

NURSERY STOCK

**Taxus — Rhododendrons — Hollies
Azaleas — Magnolias — Boxwood, etc.**

Choice-quality, well-graded stock.
Finished and lining-out sizes.

CATALOG NOW AVAILABLE.

GERARD K. KLYN, INC.

Mentor, Ohio

Wholesale Rose Growers and Nurserymen

In the heart of famous Lake County

be set up, it would cost more than it is worth, and the net result is that nurserymen do not know exactly what it costs to produce their stock.

Nurserymen are not aware that the cost of production has increased rapidly. Perhaps the only way they have been able to stay in business is through the skill of plant propagators and the use of labor-saving machinery. However, many jobs, such as pruning, grafting and budding, cannot be done by machine; it will be a long time before automation takes over the nursery industry.

Volume Up but Profits Down

Many nurserymen have said that business volume is up but profits are down, meaning that one has to work harder for less money. The price of roses, for example, has gone up during the 36-year period from 1922 to 1958 from about 40 to 50 cents, but the labor cost of planting 1,000 buds has advanced from about \$2 to \$12 to \$20. Other items when compared also show that the costs of production have gone up while the prices of plants have remained almost stationary during the past 35 years.

The solution to the nurserymen's dilemma lies in price; prices on nursery stock must go up. If a nurseryman raises his own prices he will not send all his customers to competitors. A nurseryman who features the lowest prices is either admitting that his stock is inferior or that he is a poor salesman. Prospective garden shop customers do not shop around extensively to get the best buys; they buy from a business establishment that inspires their confidence.

This does not mean that nurserymen should automatically raise all prices 10 per cent. But one should start by selecting certain items of quality nursery stock, not necessarily particularly competitive stock items. Nurserymen who have been most successful are those who handle the best quality merchandise, give the best service and charge the highest prices. They are so busy selling quality stock that they are not even aware of any cheap competition.

The country's economy is now good; the recession is disappearing, and prices are going up in all other lines. Nurserymen must take advantage of present conditions and raise prices on nursery stock, since labor costs and production costs are going up constantly.

Figuring Markup

Markup should be figured on selling price, not on cost. The smaller

SURPLUS STOCK For Fall, 1959, and Spring, 1960 LANDSCAPE SPECIMEN STOCK

	Each		Each
Balsam Fir		Juniper, Pfitzer	
3½ to 4 ft.	\$5.25	24 to 30-in. spread	\$3.00
4 to 4½ ft.	6.25	Taxus cuspidata	
Canadian Hemlock		15 to 18 ins.	3.50
3 to 3½ ft.	4.75	Quercus cerris (Turkey Oak)	
4½ to 5 ft.	7.75	2 to 2½-in. cal.	9.50
Crataegus cordata			
4½ to 5 ft.	6.50		

LINING-OUT STOCK

	Per 100		Per 100
Buxus, Korean		Taxus cuspidata	
2-yr. potted	\$25.00	3-yr. T.T. 8 to 10 ins.	\$45.00
Buxus sempervirens		Viburnum tomentosum plicatum	
3-yr. potted	25.00	2-yr. 2½-in. pots	25.00
Juniper, Pfitzer		Viburnum mariesi	
3-yr. T.T. in beds	35.00	2½-in. pots	25.00
Mahonia aquifolium			
2-yr. potted	22.50		

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25 miles west of Dayton, Ohio, Rt. 35.

FALL, 1959

EVERGREENS

SHRUBS

FRUIT TREES

SMALL FRUITS

SHADE AND ORNAMENTAL TREES

Transplanted and Root-Pruned

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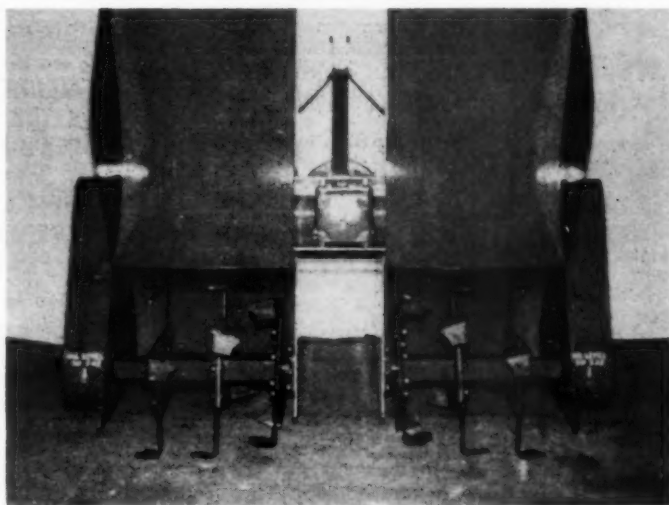
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350 Acres Established 1875

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Are You Interested in
Cutting Cultivation Costs?

**The
MILLER TRAC-TILL**



IS THE TOOL TO DO ALL THESE JOBS FOR YOU:

- Cuts hand weeding to a minimum.
- Conserves moisture.
- Leaves fields level.
- Cuts number of cultivations.
 - Makes green manure of weeds or cover crop in the middle of the rows.
 - Enables you to prepare seedbeds after plowing, saving many trips over the ground and cuts disking and harrowing and floating to a minimum.

Constructed of the Highest-Quality American-Made Material

Heavy taper-lock sprockets, No. 80 roller chain driving each rotor—new heat-treated knives for longer life—sealed bearings throughout. Heavy-duty clutch to protect against rock and hidden objects that can cause damage.

Fits all 3-point hitch tractors and can be adapted to I.H.C. Super A and 100 and the fast hitch when equipped with the 3-point adapter. Full 24-in. clearance to clear most all liners and 1 and 2-year shrubs, also adjustable from 1 to 20 ins. wide in order to miss spreading branches and can be regulated for depths of $1\frac{1}{2}$ to 5 ins. easily.

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S AND W FARM EQUIPMENT, INC.

56 S. E. Belmont St.

Portland 14, Ore.



Pfitzer Juniper

Pfitzer Juniper	Each
6 to 10 ins.	\$0.07
Plant Bands	.16
Von Ehren Juniper	
6 to 10 ins., bare-root	.06
Less than 300, total order, 2c more per plant. Less than 50 of any item, 4c more per plant. See classified under lining-out stock for other items.	

McININCH GREENHOUSES
St. Joseph, Mo.

Peach
Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr. and 2-yr.

Thorne Brewster

WILLOWBEND NURSERY
PERRY, O.

REMEMBER SHERMAN'S for...

Alpine Currant
Hydrangea P. G.
French Lilacs
Snowball
Shade Trees
Evergreens
Phlox
Peonies
Plum Seedlings
Lining-out Stock

Let us quote you on your requirements.

SHERMAN NURSERY CO.
CHARLES CITY, IA.

or lower priced the item is, the higher is the percentage it can be marked up. One cannot use any one fixed formula, because such varying factors as competition, cost of handling and shipping are influential on markup.

The way to arrive at the markup percentage is to subtract the cost from the selling price and divide the difference by the selling price. An item bought for 50 cents and sold for \$1 has a 50 per cent markup, not a 100 per cent markup. On dry lines, markup sometimes is as low as 20 to 30 per cent; some garden center operators, however, will not handle allied lines unless they can get a 40 per cent markup. The highest markup known on these lines is 66% per cent, which is extremely high, figured on a dollars and cents basis.

The markup for a wholesaler is not the same as that for a retailer, because a wholesaler does not know the figure he is marking up; he has to guess what his costs are. Retailers, on the other hand, if they buy everything they sell, do know their costs and can price to make a profit.

Nurserymen need to view their businesses with a new perspective. One can become overly familiar with any subject and needs to get away from it at times to view it objectively. Nurserymen should not belittle the business and make jokes about brush peddlers. The general public puts the same evaluation upon the worth of a business as does the owner. There is no other business that is more deeply concerned with the beauty of man's surroundings.

If one is complacent with his situation and satisfied with the amount of money he is making, he should consider the welfare of his employees. The nursery business should set a higher value on its labor and can only do so by setting a higher value on its product.

**EXECUTIVE SECRETARY
FOR NEW YORK GROUP**

Edwin W. Kirk, Slingerlands, N. Y., has been appointed executive secretary of the New York State Nurserymen's Association. A. L. Synesael, Newark, association president, has announced. The association, made up of some 400 members, who include growers and merchandisers of ornamental plant materials and fruit trees, and landscapers, is one of the oldest nursery organizations in the nation.

Mr. Kirk, a native of Buffalo and Erie county, resigned recently as director of the division of plant indus-

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A Division of
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PERENNIAL PLANTS
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PEAT POTS—Round and Square
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EVERLAST ALUMINUM
PLANT LABELS**

Your Salesmen

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"A Friendly, Experienced Sales and Counsel Service"

**50,000
POPPIES**

22

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Varieties**

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**Hardy Northern-Grown
PERENNIALS**

Strong Roots

Grown on the

Shores of Lake Superior

NORTHPOLE NURSERY
CORNUCOPIA, WIS.



Mugho Pine, BAB 100
12 to 15 ins. \$300.00
15 to 18 ins. 350.00
18 to 24 ins. 450.00

Spruce, Pine, Juniper and shrubs. List Free!

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MURSERYMEN AND LANDSCAPE CONTRACTORS=

CARE AAN CONVENTION SHERATON HOTEL PHILA=

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INDUSTRIAL LANDSCAPING WORK MAKES MECHANIZATION

IMPERATIVE. WE'LL BE AT AAN CONVENTION TO SHOW AND

EXPLAIN THE PRACTICAL ADVANTAGES OF THE YORK RAKE

AMERICA'S MOST VERSATILE AND WIDELY USED LANDSCAPING

TOOL. STOP AT BOOTH 47 TO SEE THE YORK RAKE AND TALK

WITH US.

YORK MODERN CORP, UNADILLA NY=

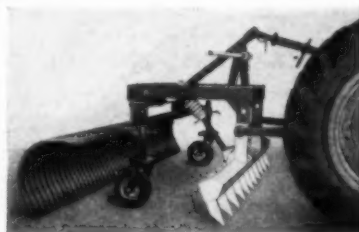
THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

Don't pass up the above invitation! Even if you already own a YORK RAKE, you'll be interested in learning how the new SCARIFIER can be added to increase its usefulness.

You name the job... scarifying, grading, leveling, removing stones, roots, debris, spreading topsoil, mixing in fertilizer, finish-raking... the YORK RAKE will do it!

Park or parkway, golf course or residential lawn building... you can do it smoother, faster and with less labor when you use this versatile YORK RAKE.

If you can't attend the convention — write us for full details.



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Hardy Northern-Grown Stock at WHOLESALE

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try, New York state department of agriculture and markets. Headquarters for his new position will be Albany, where Mr. Kirk will act as liaison between the industry and state agencies, serve as legislative representative of the association and generally promote industry activities.

Prior to affiliation with the state department of agriculture and markets, Mr. Kirk was with General Foods Corp. at Rochester. He is a graduate of the University of the State of New York at Buffalo and did graduate work at Albany Teachers' College and Alfred University.

One of Mr. Kirk's initial tasks was to develop a trade association program for consideration by the membership at its annual summer meeting at Cornell University, Ithaca, July 6 to 8.

ALEXANDER FUND SET

The establishment of the C. C. Alexander memorial scholarship fund at Purdue University, Lafayette, Ind., by Geigy Agricultural Chemicals, division of Geigy Chemical Corp., Ardsley, N. Y., was announced recently by Dr. G. R. Ferguson, president of Geigy Agricultural Chemicals.

Mr. Alexander, who died in an airplane accident last May, was the research manager of the firm and a 1938 graduate of the entomology department at Purdue. The scholarship will be the first perpetual fund at Purdue that will give preference to entomology students.

Dr. Ferguson said that his company has made a major contribution to the fund in recognition of Mr. Alexander's years of service to the company and for his contributions to the field of agriculture, as well as to mark the firm's high esteem for him as an individual.

BUSINESS has been discontinued by the Freehold Nursery, Freehold, N. J. Martin Loef was the owner of the firm, which was started in 1923 and specialized in azaleas.

THE BEST CROP EVER THIS YEAR!

Large, 2-year Transplants

	Per 100	Per 1000
<i>Azalea mollis</i> (Chinese Azalea)	\$27.00	\$260.00
<i>Taxus cuspidata</i>	26.00	250.00
<i>Taxus browni, andersoni</i>	30.00	
<i>Taxus hicksi, hunnewelliana</i>	30.00	

LINCOLN NURSERIES

 Grand Rapids, Mich.

FINISHED LANDSCAPE AND GARDEN STORE MATERIAL

500 *Acer rubrum*, 1¾ to 2-in. cal.
300 *Acer dasycarpum*, 1¾ to 2-in. cal.
200 American Sycamore, 1¾ to 2-in. cal.

All have good, full heads

CASSINELLI'S GLENDALE NURSERIES, INC.

(Cincinnati)

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Growers-Buyers-Sellers

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CHOICE SCOTCH PINE CHRISTMAS TREES

Inquiries Invited

GENERAL LINE OF HARDY PLANTS

See our ad in March 15 issue, page 77, or write:

VAN ENGEN'S KALAMAZOO GARDENS NURSERY
206 Richard Ave.
Kalamazoo 33, Mich.

New and Coming Sure-Fire Roses BINGO

(Plant Pat. No. 1392)
A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.9.
Suggested retail, \$2.50.

PINK FRAGRANCE

(Plant Pat. No. 1493), A. R. S. 1958, 7.6.
A many-petaled pink rose with outstanding lustrous foliage. Suggested retail, \$2.50.

Each	Each	Each	Each
1 to 9	10 to 19	20 to 99	100 to 249
\$1.60	\$1.40	\$1.25	\$1.20

Each 250 and up, \$1.10

ORDER THESE ROSES FROM ANY OF THE FOLLOWING NURSERIES:

The Monroe Nursery Co.
Monroe, Mich.

The Greening Nursery Co.
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Peterson & Dering
Scappoose, Ore.

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Elmer Roses
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CHRISTMAS TREES

Nursery-Grown

VANS PINES

West Olive, Mich.

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Badges 1 and 650

We will gladly welcome your visit to our nurseries. While at the convention, kindly consult our representatives regarding arrangements. Our prices are right, our quality is good and we invite comparison.

Some of our specialties—

Azaleas, in varieties
Barberry (Green and Red),
seedlings and transplants
Boston Ivy and other vines
Evergreens
Ground Cover Plants
Hardy Flowering Shrubs
Perennials
Privet, in variety

Represented at Convention by:

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DIAMOND STATE NURSERIES

Milford, Del.

and

LOVETT'S NURSERY, INC.

Little Silver, N. J.

The last severe winter actually helped us to prove again that our select type of **MAHONIA AQUIFOLIUM** will not winter burn as much as did the others.

Red and Green Barberries

French Lilac

Liners—Transplants for canning and finished stock

In Large Quantities — Consistent Supply

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Evergreen Liners
Ornamental Shrubs
Fruit Trees
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Shade and Ornamental Trees
Philadelphus Minnesota Snowflake
(Plant Patent No. 538).

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ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a general assortment for the best landscape plantings.

BRYANT'S NURSERIES
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ARMINTROUT'S EVERGREEN NURSERY ALLEGAN, MICH.

Seedlings—Transplants
Finished Stock
Send for price list.

Louisiana Course on Container Growing

By Lula Mae Dubon

Nurserymen from throughout Louisiana heard prominent growers and horticulture educators discuss various phases of nursery container plant growing during the eighth annual nurserymen's short course held at Southwestern Louisiana Institute, Lafayette, June 1 and 2. The short course was co-sponsored by the institute and the Louisiana Association of Nurserymen. Originally planned for three days, the program was rearranged to take only two days. A get-acquainted Dutch treat supper was held Monday evening.

Gordon Dugal, professor and head of the department of agricultural engineering, S. L. I., opened the program with a discussion of "Site Selection and Drainage for Container-grown Plants."

Stressing the importance of selecting a planting site that allows for good drainage as well as for other factors which are advantageous to healthy plant growth, Professor Dugal emphasized the necessity for grading. A graded site, he pointed out, allows for rapid drainage. He advocated the use of soil cement surfaces for container areas with a minimum depth of two inches for the soil cement and a minimum of 1 per cent grade for all drainage. He reminded the nurserymen that the cost of weeding between cans, which the soil cementing eliminates, would, over a period, more than pay for the cement used.

The complete drainage that such a surface maintains also does away with muddy surfaces during inclement weather, said Professor Dugal. A demonstration of the use of survey instruments and a plane table for laying out of a planting site was given by the S. L. I. professor.

Soil Mixtures

Dr. C. O. Box, assistant horticulturist, Mississippi State College, State College, Miss., spoke on the

WORLD'S LARGEST GROWERS OF PERENNIAL SEEDLINGS

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**ALL VARIETIES OF DELPHINIUM
INCLUDING PACIFIC HYBRIDS**

We supply plants in counter packages; ship in bulk for your potting or mail direct to your customers under your labels. Write today for complete information and quotations. Take advantage of our cold storage facilities for winter and early spring shipments.

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AZALEAS

Hardy Garden Types
Evergreen and deciduous,
many varieties.

Well-grown plants, 1 and 2-yr.

RHODODENDRONS

Good selection of varieties proven suitable and hardy for Great Lakes region and other areas. Own root and grafted. 1, 2 and 3-year plants. Write for prices.

**GIRARD BROTHERS
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TAXUS CAPITATA

Fine trees, 5 to 7 ft.

ELMS—MOLINE and VASE
¾-in. cal.

DAVENPORT NURSERY—MAST
3800 Brady St. Davenport, Ia.

Evergreen Liners

Taxus

Arborvitae

Juniper

M. L. CARR'S SONS
Yellow Springs, Ohio

BURTON'S HILL TOP NURSERIES

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Lining-Out Stock
Finished Shrubs, Evergreens
and Shade Trees



STURDI-POTS

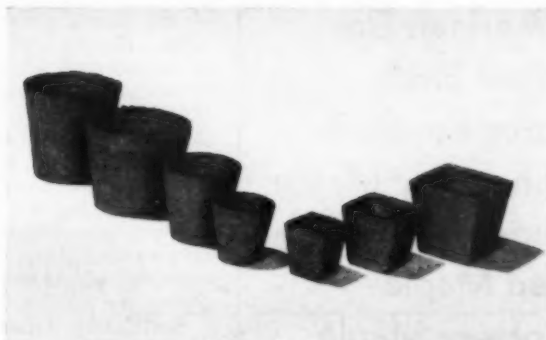
The Nurseryman's Peat Pot

Retains Moisture —

Provides Better Aeration

This extraordinary pot is composed of approximately 2/3 peat moss and 1/3 wood pulp and contains chemical nutrients for faster premium growth.

**Ideal for
NURSERY STOCK
and BEDDING PLANTS**



ROUND

2 1/4-in. 2000 per case	1000	4-in. 500 per case	1000
2000 to 18,000	\$7.25	500 to 2000	\$29.25
20,000 to 74,000	6.75	2500 to 9500	26.75
Weight per case 28 lbs.		Weight per case 30 lbs.	
3-in. 1000 per case		4-in. Azalea. 500 per case	
1000 to 9000	13.25	500 to 2000	28.75
10,000 to 49,000	12.25	2500 to 9500	26.25
Weight per case 25 lbs.		Weight per case 30 lbs.	

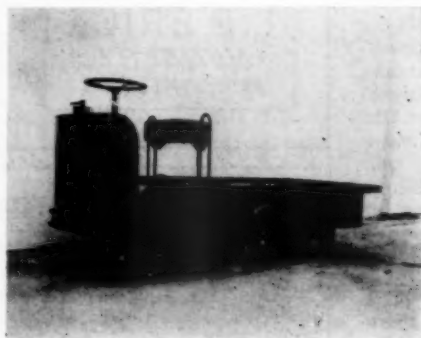
SQUARE

1 3/4-in. 2500 per case	1000
2500 to 17,500	\$7.00
20,000 to 72,500	6.50
Weight per case 30 lbs.	
2 1/4-in. 2000 per case	
2000 to 18,000	11.00
20,000 to 74,000	10.25
Weight per case 35 lbs.	
3-in. 1000 per case	
1000 to 9,000	18.25
10,000 to 49,000	17.00
Weight per case 35 lbs.	

New Low-Cost THINLINE Square

2 1/4-in. 2500 per case	1000	3-in. 1000 per case	1000
2500 to 17,500	\$7.50	1000 to 9000	\$14.50
20,000 to 72,500	7.00	10,000 to 49,000	13.25
Weight per case 34 lbs.		Weight per case 32 lbs.	

150 lbs. or more prepaid



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Cut Your Costs

Increase Operating Efficiency
With the Electric

TAYLORTRUCK

- Saves labor—one man can do the work of three.
- Economical—less than 10c per day to operate.
- Dependable—consistent trouble-free day-in day-out service.
- Virtually no maintenance required.

- Maneuverable—short turning radius, ideal for greenhouse use.
- Powerful—effortless climbing on steep grades and plenty of pull in mud and loose soil.
- Will pay for itself in six months' time.

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Green Ash
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Write for price list.

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One of the world's
greatest nursery centers.

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booklet and map.

Names, locations and types of plants
grown by 83 members representing
4,000 acres of the very finest nursery
stock. Write to:

THE LAKE COUNTY
NURSERYMEN'S ASSN.
Box 49, MENTOR, OHIO

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
ONARGA, ILL.

THE JOSEPH F. MARTIN CO.
Growers of Fine Perennials and
Rare General Stock

Fall catalog available soon.
P. O. Box 189 Painesville, O.

topic, "Soil Mixtures for Container-grown plants."

Since the soil in plant containers breaks down and causes packing and lack of oxygen, Dr. Box said that the ingredients in container soils should be such that they retain their physical properties for the duration of the plant's growth in the container. He stressed the importance of maintaining fertility levels and an adequate amount of aeration of the soil.

Dr. Box said that obtaining proper internal drainage in the soil used within the containers is a prime factor in keeping the plant healthy. Many types of materials for container-grown plants and their various economic advantages were discussed during the address.

Earl Vallot, Grandview Nursery, Youngsville, La., discussing "Selection of the Container, and Its Influence on the Crop," displayed a wide range of containers, from the papier-mache types to plastic and metal containers, including the commonly used tin can.

Mr. Vallot pointed out that, more and more, the public is demanding attractive containers and that all evidence is that the public is willing to absorb a few cents extra per plant to get it in a convenient and attractive container.

He also said that the size of containers is of importance. Public preference shows that customers are willing to pay \$1 for a plant in a 2-gallon container but only 65 cents for an item grown in a 1-gallon container. Since the difference in container costs is nominal, it is to the advantage of nurserymen to offer the plants in a large container. He pointed out that no research has been done on the influence of the different types of containers on the crop, but that such research is badly needed.

Must Use Good Judgment

Dr. Box, speaking on "Propagation and Liner Production of Plants for Container Culture," pointed out the importance of using good judgment in altering conditions for plant growth, so that a proper balance may be maintained. The effects of light, temperature and other factors on the production of plants were also discussed.

Dr. S. L. Solymosy, Cornelius Nurseries, Houston, Tex., speaking on "Fertilization and Maintaining Fertility Levels for Container-Grown Plants," gave formulas for several fertilizers but pointed out that none is perfect. Costs of ingredients in fertilization should not enter into the choice, but effectiveness of the

[Concluded on page 117]

FOR FALL, 1959

Norway Spruce, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.
Austrian Pine, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.
White Pine, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.
Red Pine, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.
Scotch Pine, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

B&B to specifications.

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At the junction of Rts. 17 and 78.
Catering to midwestern landscape nurserymen.

Shade Trees—Shrubs—Evergreens.
Write for complete Wholesale List

Finest Quality
PERENNIALS and SHRUBS
Write for complete trade list.
KINGWOOD NURSERIES
MENTOR, O.

CHRISTMAS TREES

Scotch—Austrian—Norway
Pine

L. C. GATEWOOD
Hart, Mich. Leavenworth, Kan.

LINING-OUT STOCK

FALL, 1959 — SPRING, 1960

	Each Per 100	Each Per 1000		Each Per 100	Each Per 1000
1000 <i>Acer palmatum atropurpureum</i> (Dark Red Japanese Maple), selected types, strong, 2-yr., grafts 12 to 18 ins.	\$1.50	\$1.25	1500 <i>Taxus brevifolia</i> (nana), 2-yr., T. (Dwarf Japanese Yew)	\$0.45	\$0.40
300 <i>Acer palmatum atropurpureum</i> BLOODGOOD (very dark red Japanese Maple and very scarce), strong, 2-yr., grafts ...	1.75	...	750 <i>Taxus brownii</i> , 2-yr., T. ....	.45	.40
300 <i>Acer palmatum atropurpureum</i> OSHIU BENI (light red Japanese Maple), strong, 2-yr., grafts	1.50	...	TAXUS CAPITATA (Upright Japanese Yew) *15,000 2-yr., selected seedlings, 4 to 6 ins. .... .15 .12½ 15,000 4-yr., T. .... .45 .40 1000 6-yr., TT. .... .75 *Seed sown lightly. Plants grown with plenty of room in beds.		
1500 <i>Azalea kaempferi</i> , S., various shades of salmon-pink, 4-yr., TT.	.50	.45			
1000 <i>Azalea</i> MRS. OLIVER SLÖCKCK , S., English Hybrids, 4-yr., TT., 12 to 15 ins. ....	.75	.60			
1000 <i>Azalea mucronulata</i> , S., lavender, earliest-flowering, 3-yr., TT. ....	.50	.45			
2500 <i>Buxus sempervirens</i> , true, 2-yr., T.	.20	.17½	2500 <i>Taxus cuspidata</i> (Spreading Japanese Yew), 2-yr., T. ....	.45	.40
500 <i>Cedrus atlantica glauca</i> (Blue Atlas Cedar), 1-yr., grafts	1.00	...	1500 <i>Taxus cuspidata</i> , 4-yr., TT., field rows .....	.75	.60
1000 <i>Cornus florida rubra</i> (Pink-flowering Dogwood), 1-yr., grafts ....	.75	.60	2500 <i>Taxus densiformis</i> (Spreading Japanese Yew), 2-yr., T. ....	.45	.40
2000 <i>Cotoneaster divaricata</i> (Spreading Cotoneaster), 2-yr., S. ....	.17½	.15	1500 <i>Taxus densiformis</i> , 4-yr., TT., field rows .....	.75	.60
500 <i>Cryptomeria lobbii compacta</i> , 1-yr., grafts	1.00	...	3500 <i>Taxus hatfieldi</i> (Upright Hatfield Yew), 2-yr., T. ....	.45	.40
2500 <i>Euonymus alatus compactus</i> , 2-yr., T., 9 to 12 ins. ....	.30	.25	2500 <i>Taxus intermedia</i> (Spreading Japanese Yew), 2-yr., T. ....	.45	.40
1500 <i>Euonymus alatus compactus</i> , 3-yr., T., 12 to 18 ins., br., mail-order size .....	.45	.40	1000 <i>Taxus intermedia</i> , 4-yr., TT., field rows .....	.75	.60
2500 <i>Euonymus radicans vegetus</i> , 2-yr., T. ....	.30	.25	1000 <i>Taxus thayerae</i> (Spreading Japanese Yew), 4-yr., TT., field rows .....	.75	.60
1000 <i>Foraythia BEATRICE FAURAND</i> , NEW, 1-yr., T., softwood cuttings, 15 to 18 ins. ....	.25	.20	1000 <i>Thuja woodwardii</i> , (Globe Arborvitae), 2-yr., T. ....	.35	.30
1000 <i>Foraythia Lynwood Gold</i> , 1-yr., T., softwood cuttings, 18 to 24 ins. ....	.18	.15	VIBURNUM CARLESI (Fragrant Mayflower Viburnum) 5000 2-yr., S., 4 to 6 ins. .... .15 .12½ 6 to 8 ins. .... .20 .17½ 8 to 12 ins. .... .30 .25 *1000 3-yr., T., 12 to 18 ins. .... .75 .60 (*) Heavy, well-branched, suitable for mail-order trade.		
1000 <i>Foraythia Spring Glory</i> , 1-yr., T., softwood cuttings, 18 to 24 ins. ....	.18	.15			
500 <i>Ilex compacta</i> , 3-yr., T., 3 to 6 ins.	.40	.35			
1000 <i>Ilex glabra compacta</i> , 3-yr., T., 8 to 10 ins. ....	.40	.35			
1000 <i>Ilex latifolia</i> , 3-yr., T., 10 to 18 ins.	.40	.35	VIBURNUM CARLESI COMPACTA (NEW) This is a compact form of <i>Viburnum carlesii</i> with dark green leaves and buds up very readily. 2500 2-yr., grafts		
1000 <i>Ilex rotundifolia</i> , 3-yr., T., 8 to 12 ins. ....	.40	.35			
10,000 <i>Juniperus virginiana</i> , 2-yr., T., grafting size .....	.10	.09			
1500 <i>Leucothoe catesbaei</i> (Drooping Leucothoe), 3-yr., TT., 10 to 15 ins. ....	.40	.35			

LIGUSTRUM IBOLIUM (Dwarf Privet)

2500 2-yr., T., 15 to 18 ins.30 .25

750 <i>Magnolia soulangeana</i> , 1-yr., T., C.	.50	.45
1000 <i>Malus Almey</i> , 1-yr., grafts .....	.25	...
1000 <i>Malus Hops</i> , 1-yr., grafts .....	.25	...
1500 <i>Pachistima canbyi</i> , 2-yr., T. ....	.45	.40
3500 <i>Pieris japonica</i> (Andromeda Japonica), 3-yr., TT. ....	.50	.45
400 <i>Pieris japonica</i> (Pink Andromeda), 3-yr., TT. ....	.60	.50
750 <i>Rhododendron carolinianum</i> , 3-yr., TT. ....	.60	.50
750 <i>Rhododendron virgin.</i> hybrid seedlings, 4-yr., T., 8 to 12 ins. ....	.75	.60

RHUS COTINUS ROYAL PURPLE

(New, Dark, Purple-Red-Leaved Smokebush)
 2 to 3 ft., 2 to 5 branches, B. R., 1 to 99, \$1.75 each; 100 or more, \$1.50 each.
 3 to 4 ft., B. R., per 10, \$3.50 each; per 100, \$3.00 each.

PERENNIALS

1000 <i>Epimedium alveum</i> , 1-yr. ....	.45	.40
1000 <i>Epimedium rubrum</i> , 1-yr. ....	.45	.40

HELLEBORUS NIGER

(Christmas Rose)

Suitable for mail-order trade and to pot up for roadside stand sales.
 3-yr., T., blooming size.

\$50.00 per 100 \$450.00 per 1000

Our latest price list mailed on request.

C. HOOGENDOORN, Wholesale Nurseryman
413 Turner Road **Newport, R. I.**

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CHEROKEE PRINCESS

The Worthy Companion of

Cherokee Chief

(Plant Patent No. 1710)

Here She Is — Cherokee Princess



A Sno-White Dogwood
of Outstanding Merit

- Beautiful large white blooms at an early age.
- Dominant leader with good branching habit.
- Excellent vigor.
- Uniform growth and blooming characteristics.

FEATURE THE BEST!

YOUR CUSTOMERS DESERVE IT!

Why wait 5 or 6 years for seedlings to bloom?

BOOST YOUR SALES with this new and special Sno-White Dogwood which has been long needed by the nursery trade.

AVAILABLE ONLY FROM THE LICENSED GROWERS OF

Cherokee Chief



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This RED HOT
Sales Builder!

CHEROKEE

U. S. Plant
Pat. No. 1710

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Red Dogwood

▼ BLOOMS A BEAUTIFUL DEEP RED

▼ NEW GROWTH A BRIGHT RED

▼ EXCELLENT GROWER

USES

Lawn Specimens - Accents in Borders
Colorful Street Tree - Massed for Color



SALES AIDS AVAILABLE

ALSO

Unique Arrangements
of Cut Flowers in
Graceful Bouquets

LET

Cherokee Chief

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The World's Only Really Red Patented Dogwood

Boost YOUR Sales!



Every Tree Carries
This Patent Tag

AVAILABLE FROM THE FOLLOWING LICENSED GROWERS—

Commercial Nursery Co., Decherd, Tenn. Hawkersmith & Sons Nursery, Tullahoma, Tenn.
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Tennessee Valley Nursery, Winchester, Tenn.

Here! The Two BEST EL

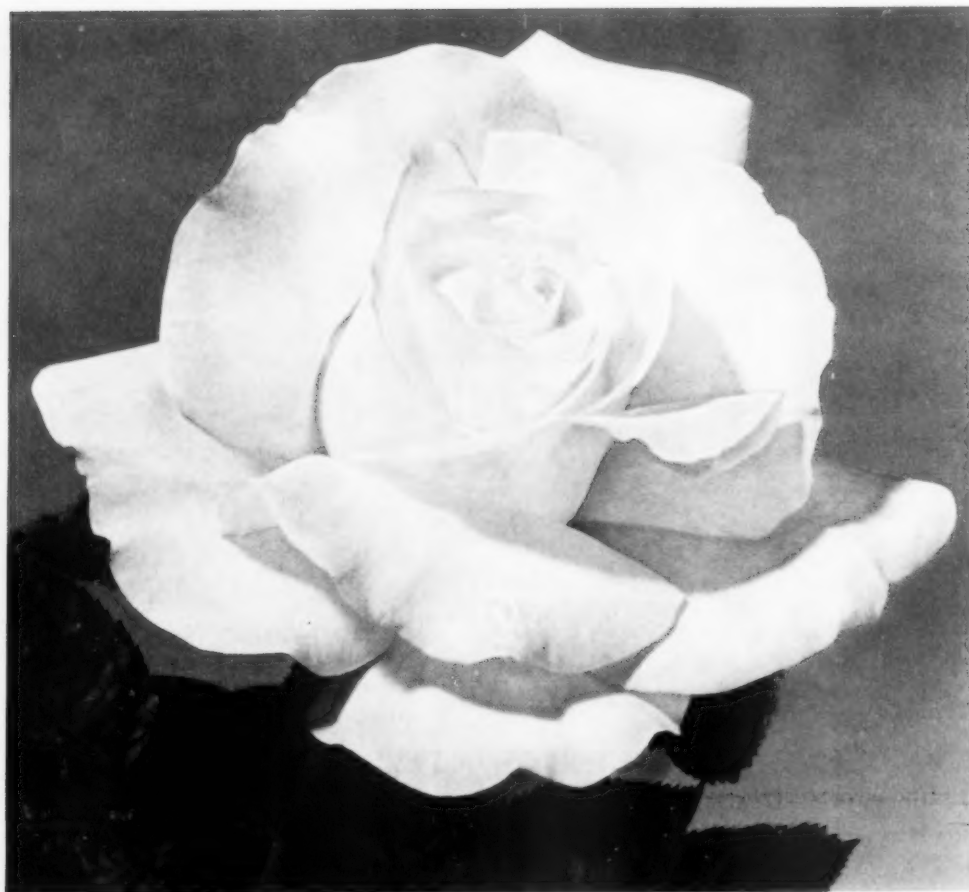
The Only Hybrid Tea All-America Winner

Garden Party

At Last!
A Superb Cross of
Charlotte Armstrong
and
Peace

The world's greatest roses, Charlotte Armstrong and Peace, are parents of this 1960 All-America Winner . . . and GARDEN PARTY shares the good looks of both. It is a huge pastel-tinted beauty of pale ivory subtly tinted with pink at the edge of each wide flaring petal. For so large a bloom, the buds are remarkably fine, long and graceful, like those of Charlotte Armstrong.

Adden Party's
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Gard a PROFIT
Patent 14.



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It's a robbery with s
lasting beautiful bud
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SELLERS For 1959-60

Winner For 1960



Additional features, a big vigorous, flower-pleasing plant, which blooms profusely for one of the greatest pre-selling, advertising and publicity yet seen for an AARS Winner. Here, Mr. Dealer, will be a ready-made rose sales—every sale of a PROFITABLE one for you! Plant Patent No. 1796.

Armstrong
INTRODUCTIONS

"SPANISH RED" GRANDIFLORA
L. CAPITAN

Grandiflora with superb color, delightful form and long-lasting buds open to color-fast flowers with 25 petals of the fiery red one sees flashing through in the sun. And this "bloom factory" will give more perfect, longer lasting flowers than most other varieties by at least 100%. For cutting and publicity, we'll tell your customers the story and the wealth of red roses . . . you'll sell El Capitán. Patent No. 1796.



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Color in your mailing piece or catalog will boost your rose sales. We can help you with good color plates for all Armstrong roses. Color prints (3 x 7 in.) of all rose varieties we list are in stock at all times.

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(Plant Pat. 1739)

Beautiful BLUE BIRD

Gardeners welcome this glorious newcomer to the small and choice list of colorful, all-summer flowering shrubs. Its large, 5-in. flowers stand out like pert blue saucers. Stunning in shrub plantings or as a specimen. **Bluebird** is vigorous in growth, upright in habit and blooms prolifically from early summer until frost.

Acer platanoides schwedleri nigra (Patent No. 735)



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Crimson
King

Better Subjects
OF THE *Better Kinds*
from **GULF STREAM**
write for complete price list

Colorful HYPERICUM, Hidcote

A compact, twiggy shrub covered throughout the summer with bright yellow, cup-like flowers about 2 in. in diameter. In cold winters it may freeze back to the ground, but will spring up again from the base and produce masses of fragrant flowers. They appear in late June and continue until mid-October. 2-year-old.

HYPERICUM, Hidcote



"CRIMSON KING" THE MOST BEAUTIFUL OF ALL SHADE TREES

Include patented **Crimson King** Maple on your list in 1960. It's the only maple which retains its dark crimson color throughout the spring, summer and fall, creating an exciting and continuous color contrast to lawns and shrubs. Be sure you get the original **Crimson King**, it is easily recognized by the dark, glistening, satiny sheen of its colorful foliage—insist on **Crimson King**.



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LOUISIANA COURSE

[Concluded from page 110]

fertilizer should, since the cost of applying fertilizer is greater per plant than the cost of materials applied. Timing the fertilizer applications so that plants are receptive is an important factor in this phase of plant growing.

Ira S. Nelson, professor of horticulture, S. L. I., discussed the "Pruning of Container-Grown Plants," replacing as speaker Dr. J. A. Foret, S. L. I., who was hospitalized for eye surgery. Pruning, from the standpoint of flowering and fruiting habits of plants, makes it necessary that the type of plant be known so that the proper sequence of wood ages may be retained to result in flowering and fruiting. He also discussed what could be expected in the growth of various types of plants if they were headed back or thinned out.

Mechanizing Container Industry

A highlight of the meeting was the showing of color slides and a discussion of "Mechanization of the Container Plant Industry, and Some Costs of Production," by Dr. Solymosy. The slides illustrated techniques in the completely mechanical planting of plants in a Houston, Tex., nursery.

Costs of accomplishing the planting and plant care by hand were tabulated through 1957, and in 1958 the costs were figured on the mechanical basis. A differential of 7 cents per can, in favor of the mechanized process, was noted at the end of that time, Dr. Solymosy pointed out.

H. K. Riley, head of the department of plant industry, S. L. I., served as moderator during a panel discussion of "Specific Growers' problems with Container-Grown Plants." During this question-and-answer period, Dr. Box; Dr. Solymosy; Mr. Vallot; Mr. Nelson, and Wylie A. Roach, Roach Nursery, West Monroe, La., were panel members.

GRAND opening was held recently of the new quarters of M & J Nursery & Equipment Rental, at 1200 South Cypress street, Fullerton, Calif. The owners, Mr. and Mrs. Emmett J. Stahl, were also celebrating their second anniversary in business.

FORMED recently was Hill Landscaping & Nursery Service, by J. B. Hill, Searcy, Ark., who has been employed for 11 years by the fertilizer division of Armour & Co. and is a former partner in the Hill-Morris Florist firm, Searcy.

PERENNIALS—HARDY PLANTS

The trend to Moss Phlox is increasing every year. Prospects are favorable for 300,000 Phlox Subulata (Moss Phlox), field-grown clumps, for late fall and spring.

200,000 Hardy Phlox Decussata, 60 varieties to choose from.

250,000 Hardy Chrysanthemums (undivided clumps). Popular varieties.

50,000 Iberis Sempervirens.

100,000 Oriental Poppy (scarlet).

A good supply of other good-selling perennials such as Delphinium, Carnations, Shasta Daisy, Columbine, Veronica, Gaillardia, Hollyhock, Painted Daisy, Coreopsis, Foxglove, Canterbury Bell and others.

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LEUCOTHOE CATESBAEI

Girard's Rainbow

A new colorful broad-leaved evergreen. Hardy to zone 4. The foliage takes on many shades, from green and yellow to scarlet, green and yellow. Winter color is purple and yellow.

Lily-of-the-valley-like flowers, very similar to those of *Pieris japonica*. Will grow to a height of 3 ft. or more, but can be kept to 2 ft. if pruned. It thrives in sun or shade but will color better in a sunny location.

Ideal for foundation plantings, borders and rock gardens.

1-yr., T., 10 for \$7.00; 100 for \$60.00

2 1/4-in. pot plants,

10 for \$5.00; 100 for \$45.00; 1000 for \$400.00

GIRARD BROTHERS NURSERIES

Geneva, Ohio

NEW 1959-60 LIST IS OUT

Our new list has been mailed July 1. Let us know if you have not received it.

NEWPORT NURSERY CO.

Newport, Mich.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

MARYLAND NURSERYMEN'S PUBLICITY PROGRAM

The Maryland Nurserymen's Association has in the past two years been working on a well-organized publicity program. It is being accomplished by the members on an entirely volunteer basis and already appears to be effective. It should help the member nurserymen on a local level to a considerable degree.

The publicity effort has been expended in several directions. The first step taken was to give added meaning and use to the Maryland Nurserymen's Association seal. Members have been reminded to use the seal more widely on correspondence stationery, catalogs, advertisements and other printed matter. Mats have been prepared so that members can have cuts for their newspaper advertisements. Small stickers, a little larger than one inch square, have been printed for use on miscellaneous printed matter and other opportune places.

Decalcomanias have been prepared in two sizes, one about three inches, the other about nine inches, for use on cars, trucks and office windows.

Planting Guide

Perhaps the biggest project is the newly printed Planting and Maintenance Guide, compiled and edited by the Maryland Nurserymen's Association, in cooperation with the American Association of Nurserymen.

The guide is an attractive 16-page booklet, with line cuts, giving information on the planting and care of broad-leaved plants, evergreens, trees, shrubs and hedges, roses, perennials and the rock and wall garden, concluding with instructions on how to water. Some \$400 was expended on preparing the line cuts, and the booklet has been printed in attractive green and white. The booklets will be sold for around 8 cents, with space for printing the member's firm name and a small amount of additional advertising. A goal of 250,000 copies to be sent out by the members is sought.

This spring a cooperative display of unusual plant material was made by a group of members at the na-

tional capital flower and garden show.

Display Setup

Under preparation is a display setup that can be shipped to members throughout the state on call, to be used at fairs, garden shows and any other appropriate civic affair. The display will enumerate advantages to be gained in buying nursery stock from members, along with other useful information. The member can display it in an attractive setting of his own nursery stock arrangement, although individual advertisement must be indirect.

While the effort was not a direct part of the publicity program, the association has participated in the governor's "Keep Maryland Beautiful," program and has sold to the members rubber stamps, which they have used on mail going all over the state and nation.

Another feature in the process of

organization is a statewide speakers' bureau among the members on plant and garden subjects. Members are being asked to list subjects on which they will give talks; times of the year when they will be available; area over which they are willing to travel to give a talk; whether or not they charge a fee, and, if so, the amount of the fee.

Membership Guide

A new membership guide booklet this year will include advertisements by the members so that their fellow members will have a better idea of what is available near by. It is felt that this is a much needed project that will help the members and then, indirectly, the Maryland public.

Closely tied into this program is an increased effort to add to the membership rolls, so that all firms are welcomed and made to feel that they are a part of the M. N. A. and will benefit from the influence of the organization as a whole in establishing standards and ethics on the highest plane.

GRAND opening was held recently of R-C Nursery, Akron, O. Richard Cone and Denton Rice are owners of the firm, which is located at 57 Cochran road.

the cottage gardens

Nick I. W. Kriek — Harold E. Hicks
2707 W. St. Joseph St., Lansing 17, Mich.

TREE PEONIES			
5-in. pots	1 to 9 rate	10 rate	100 rate
ARGOSY, single, yellow...	\$2.50	\$2.25	\$2.00
LA LORRAINE, double, yel.	3.25	3.00	2.75
REINE ELIZABETH, salmon-rose, double...	2.50	2.25	2.00
SATIN ROUGE, double, vermillion-orange	3.50	3.25	3.00
YASO-O-KINE, immense, semidouble, pure white...	4.50	4.25	4.00

Write for complete list.

EVERGREENS Seedlings - Transplants

Write for illustrated list.

MATTHEWS NURSERY
HARBOR SPRINGS, MICH.

Northern-Grown Liners Christmas Tree Seedlings Potted Evergreens

Send for price list.

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VICARY PRIVET

Lovely golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rose bed borders. Should have full sun.

Per 10 Per 100 Per 1000
Liners in 2-in. pots \$2.00 \$18.00 \$150.00
Large Quantities Available.

BEARDSLEE NURSERY PERRY, O.



TAXUS

is our specialty.

Bed stock—Liners
Finished—Specimen.

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EAGLE CREEK NURSERY CO., NEW AUGUSTA, IND.

DUGAN'S CHOICE NURSERY-GROWN PLANTS!

See page 37, September 1 issue of American Nurseryman, for complete list or write:

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FIRST IN LAWNS

Maine to California

The famous Scotts family of LAWN CARE products is the *complete* lawn line . . . backed by a smashing merchandising program that makes each Scott dealer *the* lawn headquarters in his community.

GRASS SEEDS



- FAMILY® LAWN — good looks, good wear
- PICTURE® LAWN — elegant, gem-like beauty
- CLASSIC BLEND — best of the bluegrasses
- PLAY LAWN — extra sturdy cushion
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LAWN FERTILIZERS



- TURF BUILDER® — non-burning, no extra mowing
- BONUS® — one application feeds grass as it kills weeds
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WEED CONTROLS



- CLOUT® — blasts tough crabgrass, dallisgrass
- KANSEL® — controls clover, oxalis, poison ivy
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- COPE® — kills ants, grubs, lawn moths, cutworms
- SCUTL® — checks lawn fungus such as Brown Patch

EQUIPMENT

- SCOTTS SPREADERS — Apply every Scott product evenly, accurately — save lawn time
- SILENT SCOTTS ELECTRIC MOWER — smoothest, cleanest cutting — push button starting.



If you want more information about this profit-making plan for qualified dealers, send a postcard to O M Scott & Sons, Marysville, Ohio, or 635 Second Street, San Francisco 7, California.



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125,000 beauties

Kurumes, Kaempferi Hybrids, Glenn Dales, etc.

Featuring Hino-Crimson, the Azalea that has everything.

Larger Landscape Sizes for Next Season.

BROAD-LEAVED EVERGREENS

Ilex rotundifolia, I. convexa, I. burfordi; Abelia, Ligustrum, Nandina, Osmanthus, Pyracantha, etc.

CONIFERS, FLOWERING and SHADE TREES, SHRUBS,

LARGE SPECIMEN CRAB APPLES, HOLLIES

Overnight delivery to New York and other eastern points.

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THE TANKARD NURSERIES

On the Eastern Shore, Del-Mar-Va Peninsula
EXMORE, VIRGINIA

Tankard

P. N. A. SERVES TRADE

[Continued from page 12]

ican Horticultural Council; Pennsylvania roadside council, and Pennsylvania council of farm organizations and has cooperated in many of these groups' activities, such as nursery meetings, improving highway plantings and obtaining federal and state funds for improved facilities for the department of horticulture at Pennsylvania State University.

P. N. A. helps support 4-H Clubs by giving medals for flower judging and helps underwrite the annual nurserymen's conference at the university. It publishes a news-letter six times each year, as well as a year-book listing local, state and national officers; meeting places; department of agriculture officials; university department heads, and names and addresses of members, with their telephone numbers, acreage, type of business, etc.

Groups Merge

Prior to 1954 there were two nurserymen's associations in Pennsylvania, the Pennsylvania Nurserymen's Association and the Western Pennsylvania Nurserymen's Association. At the P.N.A. 50th anniversary meeting, the bylaws were changed and the W. P. N. A. was invited to

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TAXUS

HEMLOCK

JUNIPER

3,000 Hemlock, 4 to 6 ft., B&B
2,000 Juniper, Pfützer, Hetz, etc., 2 ft. and up
5,000 Taxus, in variety, 18 to 24 ins. and up

LINERS

15,000 Hemlock, 3-yr., frame, T.
3,000 Taxus hicksi and cuspidata, 3-yr., frame, T.
35,000 Taxus, 18 varieties, 2½ and 3-in. pots, 2 and 3-yr.
25,000 Taxus, flat-grown, R. C., 3-yr., heavy
30,000 Taxus, flat-grown, R. C., 2-yr., heavy

Will be potting up surplus rooted cuttings in September. Reserve your orders at once for fall delivery. Inspection and selection invited at all times.

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Source forQUALITY ROSES Since
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Wide selection of
PATENTED and NONPATENTED VARIETIES
to fill your smallest or largest requirements.

BARE ROOT and PACKAGED

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OVER **82** YEARS
OVER **1000** ACRES

WHOLESALE ONLY

LINING-OUT and FINISHED STOCK

Flowering Shrubs

Ornamental Trees

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Container Stock

Write, Phone or Wire for Attractive Quotations

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FOREST NURSERY COMPANY, INC.

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CONVENTION REPRESENTATIVES:

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Better Liners OF THE *Better Kinds*

TO SERVE YOU BETTER we have stopped growing AZALEAS

For nearly 20 years, we have been supplying an ever-increasing demand for more and more liners . . . each year adding new and interesting varieties secured from the largest estates in England to the smallest hybridizers on the Continent.

A large portion of our business through the years has also been the raising of azaleas for the Easter market. We are now giving up this business and, in the future, will concentrate on growing a better, more diversified list of liners. Our aim is to more effectively serve only one master . . . you of the nursery industry.

If you want liners . . . if you want the **best** liners . . . be sure they are grown at Gulf Stream on the eastern shore of Virginia.

Here are a few choice liners

Aronia, Cornus, Cotoneaster, Crataegus, Myrica, Tilia, etc., in varieties.

WRITE FOR COMPLETE PRICE LIST

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SEE US AT THE CONVENTION, Represented by

JACQUES L. LEGENDRE
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GULF STREAM NURSERY INC.
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HOLLIES



AMERICAN HOLLY

(*Ilex opaca*)

The most wanted plants in America. We offer these only in named varieties, of tried and proved worth.

ORIENTAL HOLLIES

Popular varieties, such as *Ilex burfordii*, *I. cornuta femina*, *I. hetzi* and *I. rotundifolia*. Write for descriptive wholesale price list.

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QUALITY EVERGREENS

60 Acres of Plants
31 Years of Experience

Arborvitae, Biotas, Junipers, Pines, Spruce, Taxus, Broad-leaved. Magnolias and own-root Pink Dogwoods.

FIKE NURSERIES
Hopkinsville, Ky.

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AMERICAN NURSERYMAN
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merge with the group. This merger was consummated, and the state was divided into three regions: Eastern, with headquarters at Philadelphia; central, with headquarters at Harrisburg, and western, with headquarters at Pittsburgh. The names of current officers are given elsewhere on this page.

The president and two vice-presidents are selected so that each region is represented, and there are three members of the executive committee from each region. The immediate past president is made a member at large, while the secretary-treasurer holds office over a period of years. Plans for an executive secretary are under way.

The executive committee meets five times each year, and in most cases the attendance is 100 per cent. It is planned that the chairmen of the standing committees are members of the executive committee; this allows for reports at each meeting.

Two State Meetings Annually

There are two annual state meetings, one during the winter and one in the summer, alternating in the three regions. During the year, each region holds separate meetings. The regions have their own projects, such as flower shows and trade exhibits, educational planting projects, arboretum and nursery visitations and others.

P. N. A. sponsors a school landscaping award, similar to the industrial planting award of the American Association of Nurserymen. Schools or nurserymen submit plantings in competition for the award, and the winners, both school and nursery, are presented with a framed engraved certificate.

An award, nurseryman of the year, is given each year to a nurseryman in Pennsylvania who has been judged to have contributed most in service and interest to P. N. A. and the nursery industry in general. The trophy is an engraved plaque and remains permanently with the recipient. A list of the award winners to date is presented with this article.

MEYER NURSERY EXPANDS

After a small beginning 22 years ago, the M. Meyer & Son Nursery, Wichita, Kan., now employs 25 workers and produces shrubs, trees, roses and peonies on a 125-acre tract of land.

Added recently was a \$40,000 unit, which has cold storage facilities that keep temperatures at 40 degrees Fahrenheit. The firm ships thousands of trees every year to all parts of the United States.

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What to do about Aphids

NEW ThiodanTM

Licks aphid problems on field grown flowers, shrubs and ornamentals—saves money, too.

Infestations of aphids on your nursery stock can sap the life out of your plantings, choke off growth, decrease grades and sales values, seriously affect your profits.

There's a new, easy way to clean up your aphid problems. It's a recent chemical discovery called Thiodan—a new type heterocyclic sulphur compound that has proved to be an aphid killer of outstanding merit.

Thiodan residues on sprayed plants remain effective longer than other commonly used aphicides, thereby offering savings in material as well as in the

number of applications required. And Thiodan kills a host of other insects.

You will enjoy the ease of handling Thiodan and welcome the fact that no bad odors, no skin irritations occur when using it—also Thiodan hasn't the hazards of some of the more toxic materials.

Many formulators and their dealers now have Thiodan in stock. For the name of your nearest outlet write:

Technical Chemical Department, Niagara Chemical Division, Food Machinery and Chemical Corporation, Middleport, N.Y.

CHEROKEE CHIEF

(Plant Patent No. 1710)

New Red-flowering Dogwood. A truly red *Cornus florida* with excellent growth and outstanding foliage characteristics.

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FLOWERING PEACH
ILEX ROTUNDIFOLIA
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FRUIT TREES

APPLE, PEACH, PLUM, APRICOT, CHERRY and PEAR
One block of our Pear, 1-yr., must go.

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A NEW INTRODUCTION ILEX MICROCARPA

While we do not know too much about this plant, it does have prospects for becoming another good all-around landscape item.

So far, it is available in seedling-grown stock only, but with very few apparent variations. It has red berries, which grow in clusters. It is evergreen and fast-growing. It is self-branching heavily from the ground.

Seedlings and potted plants breezed through the severest winter in many years without one discolored leaf or harm in any fashion.

General appearances are similar to that of Japanese *Ligustrum*, but not so coarse. It has prospects of being more generally adaptable. Plants are available now.

2 1/2-in. pots	17c
1-gal. cans	60c

See Steve Verhalen or Jim Leftwich at Philadelphia. Let them show you the plants.

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Company

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SCOTTSVILLE, TEXAS

Your Profits Grow in Verhalen Plants

Annual Outing Enjoyed by Kentucky Association

By Howard Tilson

Following a tradition of many years, there was no program of an educational or business nature planned for the summer outing of the Kentucky State Nurserymen's Association June 15 to 17 at Kentucky Lake state park, Hardin. It might be said the group enjoyed a vacation together.

This was the second time within recent years the group had met at Kentucky Lake. The spot is still one of the beautiful parks of this or any other state. Gilbertsville dam is the last one on the Tennessee river in the T. V. A. system. The lake is one of the largest in the eastern half of the United States, with a shore line of some 2,500 miles. The Kentucky fish and wildlife resource department has done an outstanding job of stocking the lake and making it one of the choice fishing spots in the southeast. However, fishing during the group's stay was affected by an unusual cloudy condition of the water after a long rainy season.

Fun for All

For a pleasant, relaxed gathering spot Ken-Lake hotel was ideal. A number checked in on Sunday afternoon, June 14, and several stayed all the week. All, from age 4 to 60, had fun in the swimming cove. Some had an enjoyable hike around the shore line on Monday, botanizing with the excellent variety of native shrubs and trees. Senator Kidwell took advantage of this opportunity to visit with his legislative friends. Jack Stratton and Robert Ray kept faithfully to their fishing, starting at 4 a.m. every morning. The bridle paths and pony ring offered an opportunity for horseback riding.

Everyone enjoyed an outdoor party Tuesday evening as guests of western Kentucky friends, Joe Fike, Fike Nurseries, Hopkinsville, and Mitchell Leichhardt, Leichhardt's Hillview Nurseries, Bowling Green, and the southern Indiana member, Ken Draper, Tri-State Nursery, Evansville. Dinner, served picnic style in the shelter house overlooking the

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CUMBERLAND VALLEY NURSERIES, Inc.

McMinnville, Tenn.

J. R. Bragg, Pres.

Phone: 2616

Fall, 1959 — Spring, 1960

Greetings to our Fellow Nurserymen and Friends attending our A. A. N. meeting, as well as to those who are unable to be present!

Before turning this page, please note the following choice trees and plants, with your want list in mind, and let us hear from you soon!

HIGHEST-QUALITY SHADE AND ORNAMENTAL TREES

Grown from root-pruned, transplanted liners.

ACER DASYCARPUM (Silver Maple)

	Each
6 to 8 ft., T., well-br., tops	\$0.70
8 to 10 ft., T., well-br., tops, 1 1/4 to 1 1/2-in. cal.	1.00
10 to 12 ft., T., well-br., tops, 1 1/2 to 2-in. cal.	1.50
12 to 14 ft., T., well-br., tops, 2-in. cal. and up	1.75

CERCIS CANADENSIS (American Redbud)

5 to 6 ft., T., well-br.	.60
6 to 8 ft., T., well-br.	.90
8 to 10 ft., T., well-br.	1.25
10 to 12 ft., T., well-br.	1.75

LIRIODENDRON TULIPIFERA (Tulip Poplar)

5 to 6 ft., T., well-br.	.60
6 to 8 ft., T., well-br.	.90
8 to 10 ft., T., well-br.	1.25
10 to 12 ft., T., well-br.	1.75

ALBIZZIA JULIBRISSIN (Mimosa Tree)

6 to 8 ft., T., well-br.	1.25
8 to 10 ft., T., well-br.	1.50
(3-yr., staked, extra-nice heads)	

ULMUS PUMILA (Chinese Elm)

5 to 6 ft., T., well-br.	.60
6 to 8 ft., T., well-br.	.80
8 to 10 ft., T., well-br.	1.25
10 to 12 ft., T., well-br.	1.50

MALUS (Flowering Crab Apple)

	Each
Dolgo, Eleyi, Floribunda, Hopa, Red Silver, Red-vein	
18 to 24 ins., 1-yr., graft whips	\$0.25
2 to 3 ft., 1-yr., graft whips	.30
3 to 4 ft., 1-yr., graft whips	.35
4 to 5 ft., 1-yr., graft whips	.45
3 to 4 ft., 2-yr., br., grafts	.60
4 to 5 ft., 2-yr., br., grafts	.75
5 to 6 ft., 2-yr., br., grafts	1.00

PRUNUS PERSICA (Flowering Peach)

Double Red, Peppermint Stick
Redleaf (Fruiting)

PRUNUS THUNDERCLOUD

(Purple-Leaved Plum)

12 to 18 ins., June Buds	.20
18 to 24 ins., June Buds, well-br.	.25
2 to 3 ft., June Buds, well-br.	.35
3 to 4 ft., June Buds, well-br.	.45
3 to 4 ft., 1-yr., well-br., 7/16-in. cal.	.45
4 to 5 ft., 1-yr., well-br., 9/16-in. cal.	.55
5 to 6 ft., 1-yr., well-br., 11/16-in. cal.	.65

FRUIT TREES

PEACH, June Buds

	Each
3 to 4 ft., br.	\$0.35
30 to 36 ins., br.	.27 1/2
24 to 30 ins., br.	.22 1/2
18 to 24 ins., br.	.17 1/2
12 to 18 ins.	.12 1/2

Mayflower	Jerseyland	Richhaven
Hiland	Redhaven	Loring
Cardinal	Early Fair	Blake
Maygold	Ranger	Redskin
Dixied	Keystone	Elberta
Redcap	Triogem	Afterglow
Sunhaven	Southland	Rio Oso Gem
Burnett	July Elberta	Georgia Belle
Sullivan Elberta		Shipper's Late Red

APPLE

	Each
2 to 3 ft., 1-yr., graft whips	\$0.17 1/2
3 to 4 ft., 1-yr., graft whips	.27 1/2
4 to 5 ft., 1-yr., graft whips	.32 1/2
7/16 to 9/16-in. cal., 2-yr., br., grafts	.30
9/16 to 11/16-in. cal., 2-yr., br., grafts	.40
11/16 to 1-in. cal., 2-yr., br., grafts	.50
1-in. cal. and up, 2-yr., br., grafts	.60

Yellow Transparent

Lodi
Early Harvest
Anoka
Grimes Golden

Dark Red Jonathan

Yellow Delicious
Dark Red Delicious
Virginia Red Winesap
Dark Red Stayman

Red Rome Beauty

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lake, near Egner's Ferry bridge, included southern fried chicken, chocolate cake and ice cream. Mary Wallitsch had brought along several games for the youngsters, and it was difficult for some of the grown-ups to stand back and let just the kiddies enjoy the fun.

Monday evening, dinner was served family style around one long table, and the group gathered in the recreation room for cards, dancing and just plain visiting. Everyone reported an excellent spring business, with a continued demand for landscape service.

Howard Tilson, Sec'y.

KANSAS LANDSCAPE MEET

Fifty persons, including members and their families, attended the annual summer meeting of the Association of Kansas Landscape Architects Sunday, June 14.

The association held its meeting at the new Kansas state park at the Kanapolis reservoir near Salina. Before the meeting the group met for a chicken dinner at the Brookville hotel, located north of the reservoir.

Two new members introduced were Ward O. Travelute, Topeka, landscape architect, division I, Kansas state highway commission, who was received as a full member, and

Kent G. Worley, Salina, landscape design student, Kansas State University, Manhattan, who became a junior (student) member.

Acting as host for the group was Lynn Burris, Jr., landscape architect, Kansas state park authority. He gave a talk on the planning stages of this pilot state park and conducted a tour of the facilities after his talk.

The construction program, still incomplete, has reached sufficient proportion to provide for hundreds of recreational users who have frequented the park each week-end since the recent dedication on Me-

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GROWN RIGHT: 44 years' experience in the growing of quality stock is our assurance to you of the know-how necessary to produce superior plants. Latest methods and equipment employed to cultivate, spray, etc.

SPRAYING PROGRAM: We are now following spray program developed by Texas Rose Research Foundation to assure rosebushes of highest quality. Results are outstanding—quality is much improved. Try them—you will like them.

STORED RIGHT: Our completely refrigerated and air-conditioned cold-storage unit has capacity of upwards of three quarters of a million plants. It is one of the most modern units in existence and enables us to dig our entire crop of rosebushes, shrubs, etc., at the proper time when plants are fully matured. Once in storage, they are kept in perfect condition for shipment at any time.

PACKED RIGHT: Our packing facilities are unexcelled. All plants are shipped in moistureproof containers, thus insuring perfect condition on arrival. Since all stock is in storage, orders do not have to be dug. Therefore, we can offer faster shipping service any time from Oct. 1 to May 15.

PACKAGED ROSEBUSHES: As developers and introducers of the Seal-Kraft patented packaging process, we are in a position to supply packaged plants better than anyone else. Perhaps your facilities are such that plants so prepared are ideally suited for your retail sales.

Write for special quotations on large quantities.

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Phone: 4117

morial day. The park is already being used to capacity.

Completed are many camping and picnic units, a fine new service building known as the Corral House, a shop and maintenance headquarters and some fine concessions. Forty-two more camping sites are being constructed. In the long-range program a central lodge is planned, as well as individual cottages and the rerouting and paving of a state highway to improve access to the separated tracts of the park. A large park unit is being treated as a natural area for hiking, horseback riding and nature studies. Mr. Burris discussed the state parks being planned throughout Kansas, providing good recreational facilities for all sections.

After the tour the group met again, this time at Salina where Mr. and Mrs. Ralph B. Ricklefs, Kansas Landscape & Nursery Co., Salina, entertained. Refreshments and a social hour were enjoyed in their home and garden.

The next meeting of the association will be the annual winter get-together at Manhattan February 7.

SOLD recently were Wonderland Nurseries, located near Ellerson, Va., by James H. and Mazie Thompson, to Howard P. and Hazel L. Dorn.



Peach seedlings with dormant buds in background.

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BULBS—All Types
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EVERGREENS
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EVERGREENS
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HI NURSERYMEN!

How about coming to see us this summer and looking over some of our good nursery stock? We have some nice material available and would appreciate the opportunity of showing it to you. We can furnish a good supply of the following:

Juniper, spreading and upright
Juniper, grafted
Arborvitae
Broad-leaved Evergreens
Magnolia soulangeana
Magnolia soulangeana nigra
Magnolia stellata
Pink-Flowering Almond
Althaea, 9 varieties
Barberry, red, green and Mentor
Buddleia, purple and pink
Cydonia japonica rubra

Deutzia, 4 varieties
Forsythia, 3 varieties
Honeysuckle, heckrottii
Honeysuckle, bush
Hydrangea Nikko Blue
Lilac, rothomagensis
Philadelphus, 2 varieties
Privet, 5 varieties
Rose, Paul's Scarlet
Rosa rugosa
Spiraea Anthony Waterer
Spiraea foebeli

Spiraea coccinea
Spiraea opulifolia aurea
(Golden Ninebark)
Spiraea vanhouttei
Weigela, pink
Weigela, red
Pink Dogwood
White Dogwood
Weeping Willow
Silver Maple
Redbud
Lombardy Poplar

We are located in northwest Tennessee and Highway 45-W comes right through the nursery so you can't miss it. We are about 5 miles south of Union City, Tenn., and approximately 60 miles south of Cairo, Ill.

Represented at the convention by

GEORGE CULTRA

MORNING STAR NURSERY

Rives, Tenn.

SEE "YOU ALL" AT THE CONVENTION

MULTIPLE-STEMMED TREES

[Continued from page 21]

that include its early red spring flower, smooth gray bark on young stems and brilliant red fall color.

Many other maples that develop as multiple-stemmed trees should be utilized. Included is the paperbark maple (*Acer griseum*), which is an exceptionally good possibility because of its extremely interesting bark. The November 15, 1958, issue of the American Nurseryman contained an illustration of the attractive bark. Others that should be considered are hedge maple (*Acer campestre*), Amur maple (*Acer ginnala*), Japanese maple (*Acer palmatum*), trident maple (*Acer buergerianum*), purple blow maple (*Acer truncatum*) and a few others.

Amelanchier and Dogwood

One of the most usable as a clump grower is amelanchier. It is a genus that will provide fewer problems than the birches. For instance, illustration F shows what often happens to a clump of gray birch after an ice storm. This particular clump was bent over three times during the winter of 1958-59 and today has not completely righted itself—sometimes birches never do. Downy shadblow (*Amelanchier canadensis*), Alle-

gheny shadblow (*Amelanchier laevis*) and the ruddy shadblow (*Amelanchier grandiflora rubescens*) are all good possibilities.

Two dogwoods that can be found with several main stems are the flowering dogwood shown in illustration A and the Kousa, or Japanese, dogwood, (*Cornus kousa*). The bark of the Kousa dogwood is

entirely different from that of the flowering dogwood, as may be seen in illustration G. This same dogwood seems to produce more than one stem with little effort.

Trees with Interesting Bark

Additional trees that should be considered because of their interesting bark are American hornbeam

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Red-Flowering Dogwood
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CHEROKEE PRINCESS

Sno-White Dogwood

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FLOWERING CRAB APPLE IN QUANTITY

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10,000 to 49,000		3.25	4.00	PER 1000
50,000 to 99,000		2.50	3.25	
100,000 or more				
No. 87 or 87C	(5/8x7 ins.)	7.50	9.00	
1000 to 4000		6.50	7.75	2 1/4 LBS.
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10,000 to 49,000		4.75	5.50	PER 1000
50,000 to 99,000		4.00	4.75	
100,000 or more				
No. 47 or 47C	(3/4x7 ins.)	8.50	10.00	
1000 to 4000		7.50	8.75	3 LBS.
5000 to 9000		7.00	7.75	
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50,000 to 99,000		5.50	6.25	
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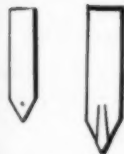
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SEE OR WRITE US FOR CHOICE STOCK OF — —

Japanese Flowering Cherries, Kwanzan and Yedoensis
Crape Myrtle, Near East, flesh-pink, and William
Toovey, dwarf red

Pyracantha Low Dense (Plant Pat. No. 884). Our sport
of *P. Formosana*, compact, thornless, red-berried,
unusual

Azaleas

Camellias

Oriental Magnolias

Miscellaneous stock such as: *Acer palmatum atropur-*
pureum, *Fatsia*, *Aucuba*, *Carolina* and *Confederate*
Jasmines

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AZALEAS

CONIFEROUS EVERGREENS

FLOWERING SHRUBS

LINING-OUT STOCK

BROAD-LEAVED EVERGREENS

PINK DOGWOOD

QUALITY merchandise at reasonable prices.

You are cordially invited to visit our nurseries before buying your stock for fall planting.

(*Carpinus caroliniana*), which was illustrated in the June 15 issue of the *American Nurseryman*; its larger growing relative, European hornbeam (*Carpinus betulus*), whose bark is not so attractive; Franklin tree (*Franklinia alatamaha*) and Persian parrotia (*Parrotia persica*), which has an attractive, scaly bark similar to a plane tree's.

Several of the Oriental cherries, including *Prunus serrula*, illustrated on page 58 of Dr. Donald Wyman's book, "Trees for American Gardens," and the large-growing Sargent cherry (*Prunus sargentii*), could do a fine job. The list should also in-

clude the Korean *stewartia* (*Stewartia koreana*), Japanese *stewartia* (*Stewartia pseudocamellia*) and showy mountain *stewartia* (*Stewartia ovata grandiflora*), because of their mottled bark, as well as their June to July appearing flowers.

Pines

The narrow-leaved evergreens that should not be neglected should include the orange-barked Japanese red pine (*Pinus densiflora*) and the Scotch pine (*Pinus sylvestris*). The lace-barked pine (*Pinus bungeana*), whose bark flakes off to present varying colors of green, almost white, tan

to brown, and gray, puts on a good show, too. This 3-needle pine seems to prefer several main stems rather than a standard stem. Even in a young plant the tendency is there.

The shore pine (*Pinus contorta*); Japanese white pine (*Pinus parviflora*) and its blue or silver form, *glauca*; Jack pine (*Pinus banksiana*); limber pine (*Pinus flexilis*); Japanese black pine, and white pine (*Pinus strobus*) are additional pines that can be grown with multiple stems, but their bark is not so colorful as on the Japanese red, Scotch and lace-barked pines. They are all worthy of being used. The unequal

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Leon Miller invites all of his many friends and customers to meet with him at the AAN Convention or phone him collect at his new office now under construction in Lindale, Texas.



Leon M. Miller
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McMinnville, Tenn.

length of the lateral branches of the Japanese white pine gives it a picturesque appearance that recommends it as one of the best. The persistent artistic cones add to its appeal.

Others

White fringe tree (*Chionanthus virginicus*); Katsura tree (*Cercidiphyllum japonicum*); common smoke tree (*Cotinus coggygia*); sourwood (*Oxydendrum arboreum*); scholar or pagoda tree (*Sophora japonica*); golden-rain tree (*Koelreuteria paniculata*); Japanese snowball (*Styrax japonica*); Japanese tree lilac (*Syringa amurensis japonica*); Siebold viburnum (*Viburnum sieboldi*), and tupelo, black gum, sourgum or pepperidge (*Nyssa sylvatica*) are even more trees to be recommended. The last-named probably no one ever thought of using, but it makes an excellent clump-grower. The rich red, to scarlet, to purplish red fall color, coupled with the broad or lateral branches of uneven lengths, makes it ideal for something unusual.

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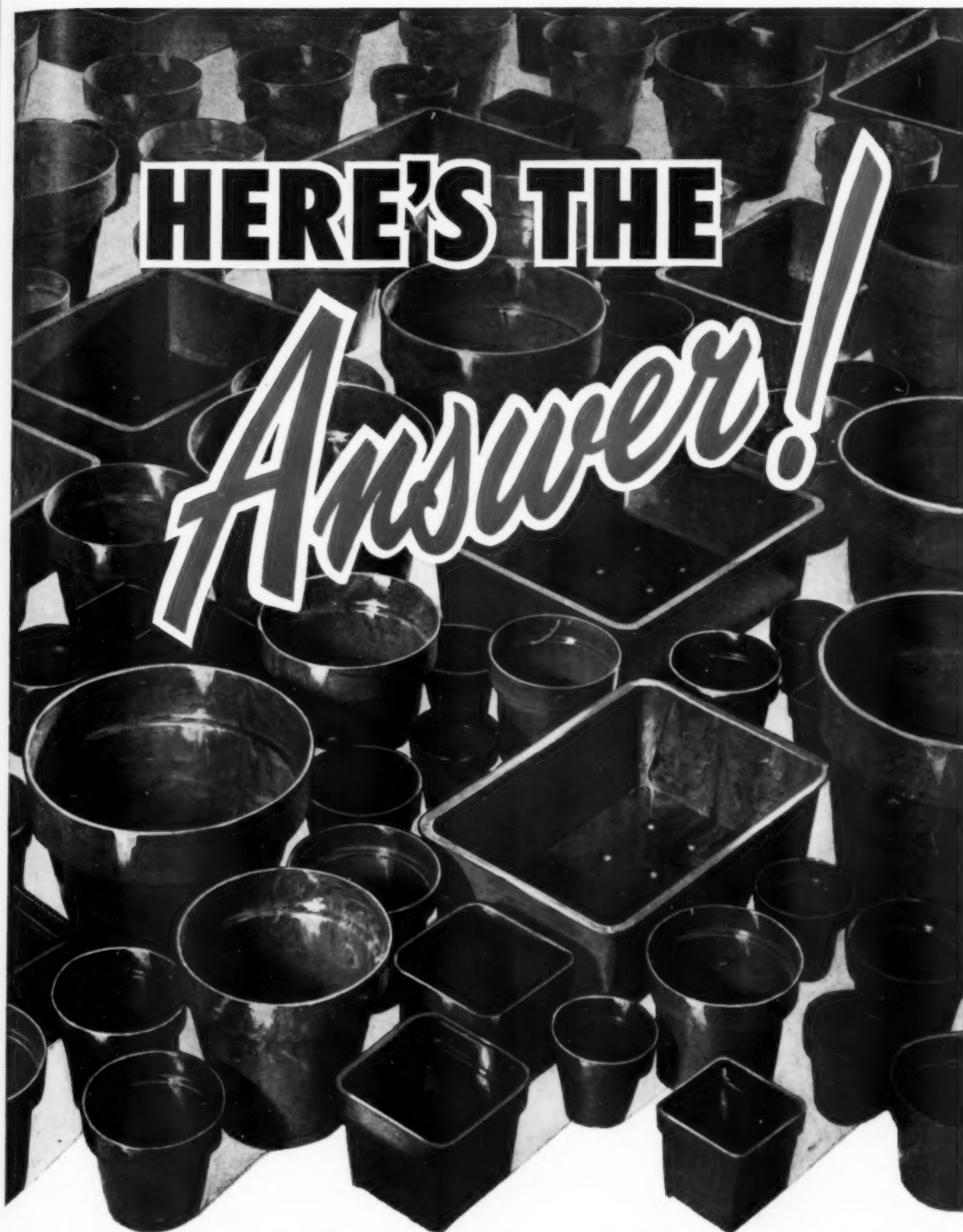
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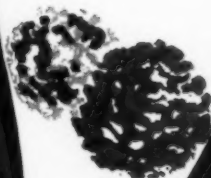


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HEADS DALLAS CENTER

John J. Hill has been named the new director of the Dallas garden center, Fair park, Dallas, Tex. A graduate of the A. and M. College of Texas, in landscape engineering, in 1947, he has been in business for himself and worked for nurseries. For the past seven years he was associated with Dallas Nurseries Garden Center, Dallas. He and his wife are the parents of two children, a son and a daughter. In his new capacity, Mr. Hill will conduct lectures for garden clubs and will be available for consultations on planting problems.

NEW LAWN FILM

Announced in a recent issue of the American Seed Trade Association Bulletin was the release of a new film entitled "Bluegrass Beauty." The 16-mm. sound and color movie (running time, 14½ minutes) was filmed primarily in Kentucky, Ohio and Missouri. It is suggested as an interesting program item for garden, service, civic and other such organizations. Made available through the better lawn and turf institute, copies of the film may be obtained from the Modern Talking Picture Service, Prudential Plaza, Chicago 1, Ill.

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Colonel F. R. Durham, vivid yellow
Comte de Quincy, sulphur-yellow
Comte Papadopoli, good light rose
Consul Pecher, pink
Dr. Reichenbach, salmon-orange
Emile Liebig, salmon-orange

Frans vander Bom, salmon-orange
Hortulanus Witte, good orange-yellow
Hugo Hardyzer, bright red
Hugo Koster, salmon-red
J. C. van Tol, bright red
Nicholas Beets, yellow, tinted bronze
T. J. Seidel, salmon-orange
W. B. Gumbleton, yellow

1-yr., T., grafts	Each
2-yr., T., grafts, 8 to 12 ins.	\$0.55
3-yr., T., grafts, 12 to 15 ins., well-budded	1.10
	1.00

CHOICE - mollis

Directeur Moerlands, best golden-yellow
Dr. M. Oosthoek, deep orange-red
Koster's Brilliant, orange-red
Lemonora, apricot-yellow, tinted pink

Mrs. G. van Noordt, salmon-pink
Queen Emma, orange, large
Speks Brilliant, vermilion-red, first-class certificate, one of the best.

3-yr., T., grafts, 12 to 15 ins., well-budded	Each
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Each plant individually labeled.
Colors: Red, orange-red, orange, yellow

	Each	Each	Each
	10	100	1000
	rate	rate	rate
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12 to 15 ins., bushy, well-budded	1.35	1.30	1.25

AZALEA - pontica (Hardy Ghents)

Bouquet de Flore, deep pink
Cardinal, salmon-pink
Cocinea Speciosa, deep orange
Daviesi, white, yellow blotch
Fanny, lilac-pink

Gloria Mundi, orange, late
Grandeur Triomphe, violet-rose
Iganea Nova, carmine-red, large
Nancy Waterer, golden-yellow, choice

Narcissiflora, sulphur-yellow, double
Pallas, geranium-red
Raphael de Smet, shaded rose, double
Unique, yellow-orange
William III, yellow-orange

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	1.65

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E. S. Rand, red
Everestianum, rosy-lilac, fringed
H. W. Sargent, lilac-red
Lee's Dark Purple, dark purple
Mme. Carvalho, white, yellow-green blotch
Mrs. P. den Ouden, aniline-red, compact
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Caractacus, red, compact
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Cunningham White, white, compact
F. D. Godman, dark magenta-red
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Catawbiense Grandiflorum, rosy-purple
Roseum Elegans, mauve-pink

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	rate	rate
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Catawbiense Grandiflorum, 2-yr., T., C., 10 to 12 ins.	1.00	.90

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Cotinus Royal Purple, 1-yr., T., layers	.65
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Fagus sylvatica asplenifolia, 2-yr., grafts, 18 to 24 ins.	1.80
2 to 3 ft.	2.20
Fagus sylvatica aurea (Golden Beech), 2-yr., grafts, 18 to 24 ins.	1.90
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Fagus sylvatica pendula, 2-yr., grafts, 18 to 24 ins.	1.80
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Fagus sylvatica purpureo-pendula, 2-yr., grafts, 18 to 24 ins.	1.90
2 to 3 ft.	2.35
Fagus sylvatica Tricolor, 18 to 24 ins.	1.90
2 to 3 ft.	2.35
3 to 4 ft.	3.10
Fagus sylvatica Swat Margret, black-red, 2-yr., grafts, 18 to 24 ins.	1.90
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Robinia hispida Monument, pink flowers, in long racemes, 1-yr., grafts, 2 to 4 ft.	\$1.55
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Tilia euchlora (Crimean Linden), 1-yr., grafts, 2 to 3 ft.	1.20
Tilia euchlora petiolaris, 1-yr., grafts, 3 to 4 ft.	1.00
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10 to 15 ins.	\$1.00 \$0.85
15 to 18 ins., heavy	1.75 1.00

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PLANT NOTES HERE AND THERE

By C. W. Wood

Oak-Leaved Hydrangeas

I should like to answer a Missouri reader's request for information about the oak-leaved hydrangea, *Hydrangea quercifolia*. It should be hardy in the southeastern section of Missouri. The plant is native to Georgia and Mississippi, and the impression has grown among horticulturists that the plant is tender in the north. On the contrary, it is surprisingly hardy, being reliable in northern Indiana, I am told. Even in northern Michigan (45 degrees) I can depend upon its being root hardy in protected spots, though the tops kill back to the ground nearly every winter. The plant has many virtues as a landscape ornament, including beauty of foliage from the time the big (to eight inches in length and width) oaklike leaves come until they fall in winter. Their whitish undersurfaces add charm during the growing season, and their deep crimson coloring in autumn makes the plant one of fall's nicest offerings. Although its flowering efforts are not to be compared with Peegee and a.g. (Hills of Snow), in my estimation the month-long production of foot-long panicles of white flowers in early summer makes it a highly desirable addition to a list of medium-tall (to six feet) shrubs. I have not tried to propagate the shrub, but I am told that it is not the easy task one finds in Peegee; I am also told that it is best grown from little suckers, known to propagators as "root-pips." As Dr. McFarland used to say: "It is not too difficult when one is willing to take the little extra trouble that is needed to propagate it."

Tephrosia virginiana

I approach a discussion of *Tephrosia virginiana*, the eastern American legume, with some hesitancy. I do not remember mentioning it before in this column, although I find many items on it in my garden notebooks. That silence is probably based on the fact that the plant is touchy when handled after it has attained much size, a poor trait in a commercial plant. The silence may also have stemmed from derogatory statements that one reads in the literature, such as the "Cyclopedia of Horticulture," where one finds this phrase, "of little horticultural val-

ue." That may apply to the shrubby members of the genus from the tropics, but it does not include the present plant, as I see those matters. A few other writers are of the same opinion, too, for I find Stephen Hamblin saying: "A good perennial pea, native to the sandy places of New England and westward, Virginia goats-rue, or hoary pea, *Tephrosia virginiana*. It grows about a foot tall in clumps like the dwarf species of lathyrus, with leaves of many narrow white silky leaflets." And Meehan thought that the "color of the flower is not brilliant, but it is sufficient to attract attention, and the neatness of its structure, with the somewhat graceful habit of its foliage, affords pleasure to those who are artistically inclined."

The flower color has varied somewhat as the plant has wandered from Texas and Florida northward to Minnesota and New England. The color runs from white or lemon-yel-

low standards to almost green and keels of various shades of pink from pale through deep rose to almost red. The individual flowers are almost as large as a locust's and bloom in short racemes like an erect wistaria. I am sure that nurserymen and their customers will find it an attractive plant.

I am not so sure about its culture. Most assuredly it is difficult to transplant. The large system of long, woody roots indicates that the plant can withstand drought when once established. It also indicates that one should be careful in its handling. My experience showed that large plants could be transplanted, but it took two or three years for them to recover from the shock. Seedlings grown in pots handle easily, suggesting a technique for the commercial grower. But *T. virginiana* never was a long-lived plant in my trials, seldom lasting over three or four years. I have thought since



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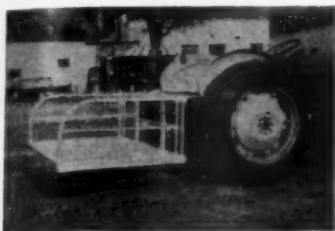
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LANDSCAPER
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March 2, 1959

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c/o Mr. H. A. Edwards

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Yours very truly,

Al Nordheden
Al Nordheden

AM/eb

The Florida State University

Tallahassee

OFFICE OF
HORTICULTURE AND GROUND MAINTENANCE

February 10, 1959

Mr. H. A. Edwards
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Henry C. Martin
Henry C. Martin
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that if I ever tried it again I should give it an acid soil, for I am told that it grows on the pine plains in New Jersey. There is no question about its hardiness if stock is chosen from the northern part of its range, despite its reputation for tenderness among English gardeners, as when Philip Miller wrote: "The only method by which I have been able to keep these plants has been by potting them and placing the pots under a common frame in winter; they have been kept in this way for three years, but never ripen seed in our climate."

Do not take my word for its beauty. Look up the colored plate opposite page 81 in volume 1 of the 4-volume edition of Meehan's "Native Flowers and Ferns of the United States." It should be added, though, that this plant lacks in silkiness.

Campanula Latifolia for Cutting

A correspondent who is going more into outdoor cut flowers for a local market asks if *Campanula latifolia* is worthy of his attention. Before answering the question, may I point out the fact that experience has taught many an old-timer that it is always the part of wisdom to go slowly at first in any new venture, or, in a case like this one, to

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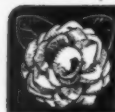
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make a trial planting before plunging.

Because so few campanulas make exciting cut flowers, almost all of them are neglected, perhaps with the exception of Canterbury bells, and those are used more as pot plants than for cut flower purposes. By neglecting them, however, one misses a really good cutter, *C. latifolia*, especially in its large-flowered form, *C. latifolia macrantha*. Growing to a height of three or four feet, usually the latter height in rich soil, it produces, commencing in this northern Michigan latitude by the middle part of June and continuing well into July, loose racemes of large, purple flowers.

It is an accommodating plant that grows well in any soil (a rich one preferred, of course) in sun or part shade and increases in beauty and usefulness with age, something that too few perennials are able to do. Seeds started into growth in spring or early summer should produce flowering plants the following year, but they will not show their real worth before the third year.

Silene Alpestris for Cutting

It may sound a bit far-fetched to recommend the little catchfly, *Silene alpestris*, for cutting, but that I do



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If you want . . .

plants that are grown under good conditions, properly cultivated, sprayed, root-pruned, sheared, fertilized and irrigated . . .
give us a ring. Better yet, come see our nursery!

Broad-leaved and Coniferous Evergreens Deciduous Shrubs Magnolia grandiflora and Cherry Laurel Liners BIG RIVER NURSERY

Dundee, Miss.
Phone: 572R4, Tunica, Miss.

to a correspondent who seeks a small, white, early-blooming, hardy flower for corsage work.

Long known as one of the best plants for the rock garden, where it gives its best for little consideration, *S. alpestris* will probably always retain that distinction and be used most in that quarter. Yet, that need not prevent the neighborhood grower who is looking for an unusual cutting item, specially to use in corsages, miniature decorations and other arrangements where clusters of small, pure white flowers on stems to eight inches in length can be used, from employing the plant in his work. It may be used for outdoor cutting, especially if some is grown in a frame to advance the flowering period two or three weeks, thus giving a long season of flowering; better yet, I believe, would be to bring some of the plants into a coolhouse.

Following is a description of the way one grower of my acquaintance, over 20 years ago, handled the plant for indoor blooming: The plants were started from seeds or divisions in early spring, and those grown along outdoors without check were put as closely as possible in flats that were placed in coldframes until wanted in late February or early March. They were then planted in

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When passing through Virginia, attending the A. A. N. Philadelphia Convention, you are invited to pay us a visit.

We can show you 600 acres of nursery stock in large assortment of varieties.

Being located near junction of the Skyline Drive and Blue Ridge Parkway, we can also offer beautiful mountain scenery.

Waynesboro Nurseries
Waynesboro, Virginia

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Silver Maple, Hall's Honeysuckle, Flowering Peach, Forsythia, Crab Apple, Fruit Trees, Poplar, Privet.

Write for trade list.

FLOWER CITY NURSERIES
Rt. 3 McMinnville, Tenn.

EVERGREEN GRAFTS POTTED LINERS CONTAINER STOCK

Ask for our latest list.

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Dover, Okla.

HARDY FIELD-GROWN STOCK

- White, Pink and SUPER RED Flowering Dogwood.
- Shade Trees and many Flowering Ornamental Trees.
- Various kinds of Hollies and other Evergreens in 3 and 4-yr. finished plants.
- Fruit Trees, one and two years old, in general line.
- Grapevines and Berry Plants.

All at money-saving prices. Come, write or call—will submit prices on request.

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Phone: LYric 5-5420

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Seedlings only of the Peter Lui strain, 1-yr. whips and 2-yr. branched, mostly Nanking progeny. Also, properly stored weevil-free seed nuts. Our low costs of production permit low quantity prices. Inquiries invited.

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Wholesale Growers of Broad-Leaved and Coniferous Evergreens

Ask for trade list.

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Founded 1917

We Offer to the Wholesale Trade
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JUNE BUD PEACH

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PLUM AND APRICOT

FLOWERING CRAB

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We specialize in lining-out stock.

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CANNED PLANTS

Build profits with Wight's container-grown evergreens. Wide assortment, including Ilex, Magnolia, Camellias, Pyracantha. Ask for wholesale list.

Wight NURSERIES CAIRO, GA.

TRAAS' NURSERIES

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Clonal Rootstock for Fruit Trees.

M., M. 104, 106, 109, 111, M.XXV, E. M.

11, Maxford F. 12/1.

*Our Botanical Experience
Is Your Guarantee!*

a raised bench in gentle heat for flower production within a month or six weeks, depending upon the temperature. Experience showed that a carnation or violet temperature helped produce long-lasting flowers of good substance, although this temperature made them somewhat slower in coming into bloom. Incidentally, the item should be good for growers who sell hardy plants. If part of one's stock is grown in pots in an unheated frame, to be sold while the plants are in bloom, it is sure to be profitable.

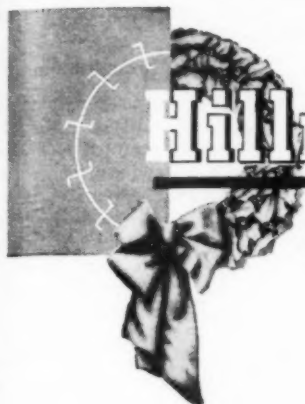
Linum Monogynum

It is somewhat of a coincidence, I think, that I had two inquiries just recently on the New Zealand flax, *Linum monogynum*, one coming from Louisiana and the other from Massachusetts. I think it safe to tell the latter correspondent to forget all about growing the plant unless he and his customers are prepared to carry the plants over winter indoors. To all who can grow it, it may be said that they will find *L. monogynum* one of the best of the flaxes.

It makes a pretty little bush to 15 inches, or so, clothed in small (to a half inch), filmy leaves and bearing throughout most of the summer a prodigious number of large (an inch or more), white flax flowers, ethereally beautiful. I have read two or three times of a form with sky-blue flowers but never have been able to track it to its lair; so I have come to doubt the authenticity of such a plant. If any American Nurseryman reader knows of a sky-blue *L. monogynum*, will he please drop me a note on it?

Hilltop Daisy

If one sells annual bedding plants, it might pay him to investigate the hilltop daisy, a Californian. I say "might," because I did not know about the plant when I grew bedders and I have not seen it used in that role. But I had it in my trials a few years ago and was favorably impressed with it. I suppose the plant, *Monolopia major*, is known as hilltop daisy because it decorates the hilltops of southern California, though that cannot be verified by the available literature. The floras say it is a woolly plant, but it lacked wooliness in my trials, though it did live up to its other reputed characteristics, including a height of close to two feet and an abundance of large (two inches across), golden-yellow daisies throughout most of the summer. It has the added attraction of being an excellent cut flower, lasting for a long time in water. One catalog in my file says



Hillman Wreath Ring

REG. U. S. PAT. OFF.

AND MACHINE COMPANY

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EAST PATERSON, N. J.

SWarthmore 6-1236

THE HILLMAN WREATHMAKING MACHINE gives you faster production and better wreaths with **LESS WORK**.

This is a machine that anyone can operate, thereby reducing the need for experienced labor. Whether you turn out a few wreaths or thousands, the Hillman machine eliminates headaches and hard work.

Here at last is the answer to the problem of meeting heavy demands for the Christmas season.

SIMPLE TO SET UP—OR STORE AWAY

Insert your Hillman machine into a table slot or clamp it to the outside of a bench. The Hillman machine is completely portable; when not in use, can be taken down and stored away. All machine parts are guaranteed, regardless of the year purchased; any broken part will be replaced without cost. (Springs are free.)

NEW IMPROVED HILLMAN RINGS

Since its introduction to the public a few years ago, great strides have been made to improve both the machine and rings. Wreaths of all sizes can be made *the Hillman way*. See instructions in each carton.

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Supplies can be purchased from the following jobbers:

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Illinois:
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Carl Whittinger, Chicago

Indiana:
Schultz Garden Supplies,
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Iowa:
Florist Supply, Inc., Des Moines
Tri-City Wholesale, Davenport

Kentucky:
Berthold-Grigshy, Louisville

Massachusetts:
Arnold-Fisher, Boston

Michigan:
Century Florist Supply, Detroit
Flint Florist Exchange, Flint
Florist Supply, Inc., Grand Rapids

Minnesota:
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New Jersey:
E. Brenner, Newark
Dierdorf & Sons, West Paterson
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Gabel Florist Supply, Paterson
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New York:
Carl C. Beck, Albany
Bronx Florist Supply, Bronx
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Coastal Paper, New York City
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L. I. Florist Supply, Hempstead
Kervan Co., New York City
Nickerson Supply, Long Island
Queens Wholesale, Queens
M. Sevin Co., Franklin Square
Sunrise Wholesale, Lynbrook
Wiegrow Products, New York City

North Carolina:
P. H. Johnson Co., Greensboro

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I. G. Harman & Son, Canton
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Oregon:
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Pennsylvania:
Apex Florist Supply, Philadelphia
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Pendle Nurseries, Pittsburgh
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Tennessee:
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Washington:
Washington State Holly Growers
Assn., Tacoma

Washington, D. C.:
Bee-Gea Florist Supply

Wisconsin:
Badger Wholesale, Milwaukee
Economy Florist Supply, Menasha
Rojahn & Malaney, Milwaukee

PATENT NOTICE

****STARKRIMSON DELICIOUS** (Bisbee Strain) Apple (Plant Patent No. 1565) is a bud sport mutation that was discovered in a *Starking Delicious apple block near Hood River, Ore. This outstanding, new, all-over-red apple ripens at about the same time as *Starking Delicious. This variety takes on its color pattern in the form of a solid blush as contrasted to the more pronounced striping color pigmentation of the *Starking Delicious variety. The apples are the same size as *Starking Delicious, but are longer and more typey, with a more pronounced 5-point crown, than *Starking Delicious apples on nearby trees.

The tree form of the new **STARKRIMSON DELICIOUS (Bisbee Strain) apple is definitely different from *Starking Delicious in that it is a compact, heavily spurred type tree that comes into younger and heavier production of Delicious-type apples. This spur-type tree at maturity will be about two-thirds the size of a standard apple tree.

The exclusive patent rights on this variety are owned by us as evidenced by U. S. Plant Patent No. 1565, which does not expire until February 12, 1974. Asexual reproduction of a patented plant is prohibited unless by written consent of the patent owner. Only Stark Bro's Nurseries & Orchards Co. have any right to propagate trees or stock of this patented apple variety by any method, including top-working. **STARKRIMSON DELICIOUS (Bisbee Strain) apple trees are sold only by Stark Bro's Nurseries & Orchards Co. and their authorized salesmen. Any person infringing this patent by either reproducing, using or selling this variety without authority from us, whether under the name of **STARKRIMSON DELICIOUS (Bisbee Strain) or under any other name, can be prosecuted for infringement under the U. S. Patent Laws.

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Cherokee Chief Red-Flowering Dogwood
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Pink Dogwood a Specialty

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100 acres of choice evergreens
ready for sale.

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GRANT'S NURSERY

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Caledonia, Miss.

Quality stock plus pleasing
service. Inquiries invited.
87th Year of Growing
Box 88-A Sherman, Tex.
TEXAS NURSERY CO.

that it "thrives best in heavy soil," but it did quite well in my sandy garden.

Daffodil Broughshane

As I promised in a recent issue that notes on daffodils would be given as space permitted, I should like to say a few words in praise of Broughshane. Advances are being made so rapidly in daffodils that one cannot hope to keep up with events unless he is a specialist. But one will surely not want to miss the regal splendor of Broughshane. I have been watching it during the past few years and do not now recall so impressive a daffodil since I first saw John Evelyn years ago. Size alone does not always mean a pleasing daffodil, though size in this case is so nicely coordinated in all its parts that it adds up to a superb flower. If one imagines a 2-foot scape growing from a clump of leaves almost two inches in breadth, each scape crowned with an immense flower (five and a half inches across, with a trumpet of equally noble proportions, the outer segments being more than two inches across), of excellent substance, he will have an inadequate mental picture of a breathtaking, white trumpet daffodil. Despite its great size, everything about the plant seems to me to be perfectly balanced.

Eriophyllum Lanatum

I judge from correspondence that the plant known in the west as Oregon sunshine, *Eriophyllum lanatum*, is poorly understood in eastern gardens. My interest in the plant is entirely impersonal, for I do not have a thing to sell. But I do think that it has much potential value for eastern gardeners if it is treated correctly. And correct treatment is so simple that gardeners in fairly dry sections have no problems at all, so long as they do not coddle the plant. Friends in the west tell me that Oregon sunshine is found under a wide range of conditions in its natural habitats, varying from almost desert-dry situations, where it is a low, compact plant, perhaps no more than four inches high at maturity, with finely cut leaves, woolly underneath and hairy above, to extremely humid areas, where it may get a foot tall, lose much of its wool and hair and likely become floppy. From all I gather from observation and correspondence, gardeners in the east have erred mostly in growing it under too moist conditions. In my trials in northern Michigan, best results were obtained from culture in the driest soil (and that is dry, indeed!), where it grew to six or eight



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HARDY HALL'S ALMOND

DWARF PEACH, in 5 varieties

"ROYAL RED" REDLEAF PEACH TREES

GRAPEVINES, in Concord, Fredonia, Jumbo Red and Niagara, 1 and 2-yr.

BLACK RASPBERRY, including the new Black Hawk

LATHAM and WILLIAMETTE RED RASPBERRY
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Write for prices . . . we know we can save you money on this first-class merchandise. All twice state inspected. Write or phone us:

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CUT CHRISTMAS TREES PREMIUM SCOTCH PINE

- Pruned for 5 years
 - Excellent color
 - Plantation-grown
- Truck or carloads.

Shipping for 10 years to Ohio and Michigan nurserymen.

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Finest Quality

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Quality Nursery Stock

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Lawnseed Specialists for Over 35 Years!

Write or phone collect for prices on your
Special Formulas, Private Brands
or Straight Seed!

Pedigreed Seed Co.

96 Forrest Street, Jersey City 5, N. J.
Henderson 3-2100

inches in height and covered itself with bright yellow daisies, beginning in late spring and lasting into the summer. If the plant is given a dry situation, protected from winter winds if one does not have winter snow protection, a splendid garden plant will result.

GREEN PLASMA DECREE

The federal trade commission approved a consent order May 8, 1959, (No. 7277) which forbids the I. G. Chemical Corp. of New York to misrepresent the quality of Green Plasma, its chemical preparation for lawns. Last October, the commission charged the respondent with falsely advertising that the preparation will keep lawns green "365 days of the year with just occasional sprinklings." The commission further charged "Green Plasma is merely a dye which sunlight will bleach and rain will wash out, thus making frequent applications necessary." "Also, the company must stop claiming that Green Plasma has been tested or approved by the government or used on the Capitol or White House lawns; that it is a new scientific discovery, plant food or an effective fertilizer; or that its supply is limited, the ingredients are scarce, or purchasers receive a free trial."

"The agreement is for settlement purposes only and does not constitute an admission by the respondents that they have violated the law."

NEW GARDENCROFT UNIT

A new building housing the Gardencroft Nursery, Flushing, Mich., was recently opened. Built around a former structure on the site, it is a 30x60-foot building made of concrete blocks with an aluminum and glass front.

The owner of the building and 10 acres of land around it is Howard Whetham, who has had the business at this same location for the past 20 years. He has been joined in partnership in the nursery by Lee St. John, who has operated the Lee-craft Landscape Service for the past three years.

Mr. Whetham is general manager of the business, and Mr. St. John, who is a graduate of Michigan State University, East Lansing, manages the nursery and landscape operations.

ADDED to the Arab Nursery Co., Arab, Ala., this past year were an insulated mail-order department, a new basement for plant storage and a new greenhouse.

WE

Princeton Nurseries

10 miles



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Princeton NEW JERSEY Pennington
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INVITE YOU

Are You Interested In:

Landscape Specimen Production?

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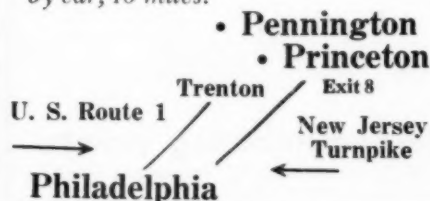
If So Visit Us on Inspection Day

Thursday, July 23, and

Friday, July 24

HOW TO COME

*Two direct routes
by car, 40 miles.*



Timetable

<i>Lv. Phila.</i>	<i>Ar. Trenton</i>	<i>Ar. Prn. Jct.</i>
9:00 A.M.	9:40 A.M.	9:50 A.M.
12:00 Noon	12:39 P.M.	12:49 P.M.
1:00 P.M.	1:39 P.M.	1:49 P.M.

Departure time listed is from 30th St. Station, Philadelphia. Trains leave 10 minutes later from North Station, Philadelphia.

Eastern Daylight Time

For Further Information

See Wm. Flemer III (Badge No. 17)

Wm. P. Howe III (Badge No. 985)

At the Convention

PACIFIC COAST NURSERY

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**Pioneering Seedling Growers on
the Pacific Coast Since 1914**

***Specializing in Fruit Tree Seedlings,
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French, McIntosh and
Domestic Apple Seedlings,
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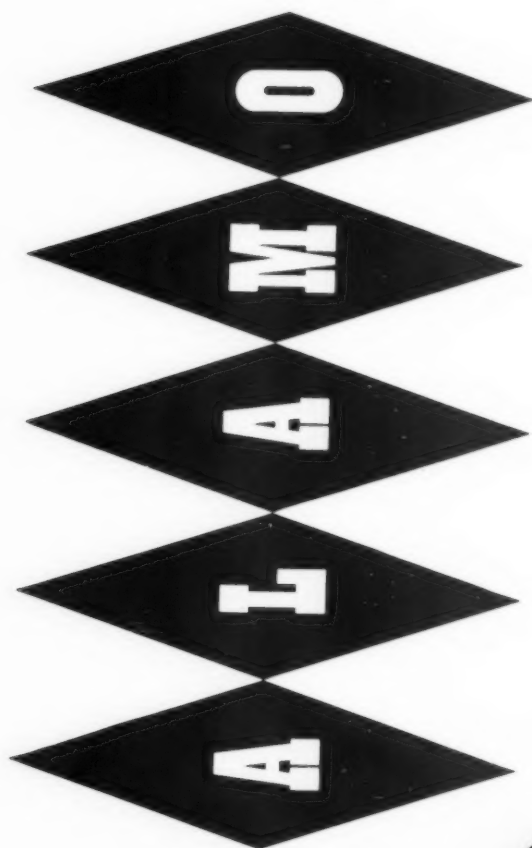


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Faassen's **RED-LEAF MAPLE**

A hardy, deciduous tree that holds its color throughout the growing season. Thrives in any locality agreeable to other varieties of Maple.

*Write for Price List or Contact John Holmason, J. P. Holmason
or Martin Holmason at the Convention in Philadelphia*



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SLATE LABORATORY OPEN

Five hundred persons attended the formal dedication of the new laboratory at the Connecticut agricultural experiment station, New Haven, Conn., which was named in honor of William L. Slate, who served for 25 years as director of that station and the one located at Storrs, Conn.

Mr. Slate was present for the event, along with representatives of nearly 40 agricultural organizations, colleges, garden clubs and specialized horticultural groups. Also present was M. J. R. Healy, Rothamsted experimental station, Harpenden, England, the oldest experiment station in the world.

Speaking at the ceremonies was Joseph N. Gill, commissioner of the Connecticut department of agriculture and representative for Governor Abraham Ribicoff, who informed the group that at the 50 or so experiment stations in the country, there are only 15 scientists from them who have been selected for membership in the National Academy of Sciences. Of these 15, three are on the staff at the Connecticut agricultural experiment station.

A landscape plan for the Slate laboratory was contributed to the station by the Connecticut Nurserymen's Association. Peter Cascio, Peter Cascio Nursery, West Hartford, headed the committee that designed the planting.

GEORGIA CONVENTION

[Continued from page 24]

for use in the large areas in and around the Ida Cason Callaway Gardens.

Some of the new plants shown were yellow-berried holly, tree ivy, new dogwood and flowering quince.

The business meeting after the election of officers closed the afternoon session. Ida Cason Callaway Gardens was chosen for next year's convention site, but the date was left open until other state associations assembled at the Southern Nurserymen's Association's meeting at Jacksonville, Fla., August 23 to 25, to decide dates.

The next important item of business was the increase in dues effective this year.

Plant Diet Needs

The session held the next morning, June 9, opened with "Fertilization of Nursery Stock and the Importance of pH," a talk by Carroll E. Walls, E. I. du Pont de Nemours & Co., Inc., Atlanta. He said that the most important cultural factor in successful nursery management is to en-

CHERRY TREES

"True to Name—Our Aim"

We have specialized in growing cherry trees for 38 years and believe that our experience and experiments carried on during that time have qualified us to produce the very best that can possibly be grown. We have a good supply of 1 and 2-year **Sour Cherry** and 1-year **Sweet Cherry**. Also, 1-year **Apricot**, **Peach** and **Plum** and 1 and 2-year **Apple** and **Pear**.

Write for our complete list and information on our delivery service.

Curtis L. McClain, Owner

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WASHINGTON HEIGHTS NURSERIES**

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Hardy, Northern-Grown

DWARF MALLING ROOTSTOCK

E. M. IX, VII, II and Clark Dwarf Scions
New woolly-aphid resistant Malling-Merton
No. 104, 106, 109, 111

Quince, A—St. Julien, A
(the best for dwarf peach trees)

Available in transplanted stock and rooted layers.
Generously graded.

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**NORTHERN-GROWN
FRUIT TREES**

DWARF and STANDARD

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PEAR SEEDLINGS

(*Pyrus calleryana*)

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**SMALL FRUIT PLANTS
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FOR FALL BULB PROMOTIONAL SALES WE OFFER:

IMPORTED JAPANESE TULIPS

Exceptionally fine, clean, round, sand-grown bulbs with excellent skins. Prices apply on orders placed before August 15. F.O.B. New York or Farmington. (Slightly lower F.O.B. San Francisco.)

SPECIAL RAINBOW MIXTURE	Per 1000	Per Case
10 to 11 cm. (2000 per case).....	\$20.00	\$35.00
11 to 12 cm. (1500 per case).....	25.00	35.00
12 cm. and up (1500 per case).....	32.50	45.00

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	10 to 12 cm.		12 to 14 cm.	
	Per 1000	Per 10,000	Per 1000	Per 10,000
HELIOS , medium, yellow cup	\$12.00	\$100.00	\$16.50	\$150.00
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RAINBOW MIXTURE , all types	12.00	100.00	16.50	150.00

IMPORTED DUTCH CROCUS

Blooming size, 7 to 8 cm., assorted colors. Packed 50 per bag, with colored picture and planting instructions on each bag.

50 bags (2500 Crocus bulbs).....	\$27.50
100 bags (5000 Crocus bulbs).....	50.00

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Farmington, Mich.

vision the plant food supply and its availability.

He explained that plants are like people; they must have a balanced and steady diet, even during the winter season when most plants are dormant. Just as a doctor diagnoses his patient's needs, so should the nurseryman first analyze the soil and find out the plant's needs. Slides and a blackboard were used by Mr. Walls to show how to fertilize and to point out the importance of pH.

The next talk heard by the Georgia nurserymen was "Proper Processing of Field-grown Nursery Stock for Market," given by Edwin Fraser, Southern States Nurseries, Macclenny, Fla. He said that the most important thing is quality, in order to process properly field-grown nursery stock; if the nurseryman does not have quality stock he cannot dress it and sell it.

Mr. Fraser went into detail, telling how to plant, cultivate, fertilize, spray, prune and groom the plant until it is ready to be dug. He next described the digging of the plant; the method of applying burlap, and the care of the plant on the way to the packing house, the truck and then to the customer.

The last talk on the program was on a timely topic, "The Landscaping

SHEARED SPECIMENS CAREFULLY GRADED

	Each		Each
<i>Berberis julianae</i> nana, Belkville selection, compact, more handsome than old julianae.		<i>Ligustrum lucidum</i>	
10 to 12 ins.	\$1.15	15 to 18 ins.	\$ 1.50
12 to 15 ins.	1.40	18 to 24 ins.	2.00
15 to 18 ins.	2.00	24 to 30 ins.	2.50
18 to 24 ins.	2.25	<i>Pinus montana</i> mughus, from true dwarf seed.	
24 to 30 ins.	2.75	12 to 15 ins.	2.00
2 1/2 to 3 ft.	3.50	15 to 18 ins.	2.50
<i>Berberis sargentii</i>		<i>Pinus strobus</i> , heavy, sheared specimens	
15 to 18 ins.	1.75	3 to 4 ft.	3.00
18 to 24 ins.	2.00	4 to 5 ft.	3.00
<i>Buxus sempervirens</i>		5 to 6 ft.	6.50
18 to 24 ins.	3.50	6 to 7 ft.	7.50
24 to 27 ins.	4.50	7 to 8 ft.	10.50
27 to 30 ins.	5.50	7 to 8 ft., 2 1/2 to 3-in. cal.	12.50
2 1/2 to 3 ft.	7.50	8 to 9 ft., 3 1/2 to 4-in. cal.	22.50
<i>Cotoneaster franchetii</i>		10 to 12 ft., 4-in. cal. and up ..	28.50
18 to 24 ins.	2.00	<i>Rhododendron</i> Hybrids, named varieties up to 2 ft. at standard prices—ask us.	
2 1/2 to 3 ft.	2.75	<i>Taxus hatfieldi</i> , heavy columnar	
<i>Ilex crenata</i> convexa		15 to 18 ins.	3.25
10 to 12 ins.	1.35	18 to 24 ins.	3.75
12 to 15 ins.	2.00	<i>Taxus hicksii</i>	
15 to 18 ins.	2.50	15 to 18 ins.	3.00
<i>Ilex crenata</i> microphylla		18 to 24 ins.	3.50
15 to 18 ins.	2.25	<i>Taxus stovekeni</i>	
18 to 24 ins.	2.75	3 1/2 to 4 ft.	9.50
<i>Ilex crenata</i> repandens		<i>Tsuga canadensis</i>	
10 to 12 ins.	1.35	18 to 24 ins.	2.50
12 to 15 ins.	2.00	2 to 2 1/2 ft.	3.00
15 to 18 ins.	2.65	2 1/2 to 3 ft.	3.50
<i>Ilex crenata</i> rotundifolia		3 to 3 1/2 ft.	4.25
12 to 15 ins.	1.75	3 1/2 to 4 ft.	5.00
15 to 18 ins.	2.25	<i>Viburnum rhytidophyllum</i>	
18 to 24 ins.	2.75	3 to 4 ft.	4.50
24 to 30 ins.	3.60	4 to 5 ft.	6.00
<i>Leucothoe catesbaei</i>		5 to 6 ft.	7.00
15 to 18 ins.	2.50	6 to 7 ft.	8.50
18 to 24 ins.	3.00	7 to 8 ft.	10.00
2 to 2 1/2 ft.	3.50		

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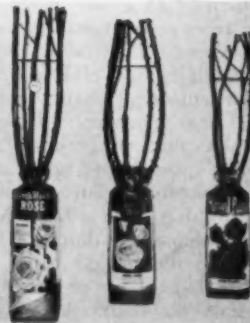


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 Success Pecan Trees — Pears, Peaches,
 Plums, Persimmons, Apples, Grapes.

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of Public Housing Projects," given by H. Boyer Marx, H. Boyer Marx & Associates, Atlanta. Slum redevelopment and new housing will be the type of planting most of the landscape contractors will be doing soon, stated Mr. Marx.

He told how the government started in housing as far back as 1935-'36 and that the first low-rental housing was started at Atlanta. The projects there are still owned by the government, and there have been many others since. Nurserymen are missing an opportunity to sell plants for these housing projects. Plant losses in these projects have been high, because one-third of the tenants are children, and the maintenance is handled by a man who knows little about plant material.

Public Housing Landscaping

The basic rules for Mr. Marx's firm when drawing these plans are as follows: (1) Avoid the use of large-growing plants that will exceed the space limitations at full growth or will require severe pruning to control them; (2) avoid placing large shade trees near utility lines or under electrical distribution systems; (3) avoid the use of brittle shrubs or plant material that will require costly maintenance; (4) specify plant sizes that will permit plant adjustment even though some damage to the plant may occur; (5) use freely plants that have a thick habit of growth and those that are thorny; (6) grade the project area, if possible, so that the use of ground cover materials on bank slopes can be avoided (they are expensive), and (7) locate trees where they will provide the maximum amount of shade. If necessary, locate trees where one can take advantage of their sound-reducing properties.

He concluded by warning that the critical period of planting materials at housing projects is the first two years when they are becoming established.

THE GRAFTER'S HANDBOOK, by R. J. Garner. Grafting in detail. 2nd ed. (1958). 260 p. **\$5.75.** American Nurseryman, Chicago 4, Ill.

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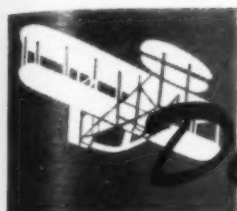
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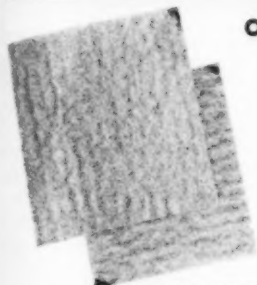
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	Per 1000	Per 1000
20x20 ins.	\$ 30.00	\$ 45.00
24x24 ins.	45.00	70.00
26x26 ins.	50.00	75.00
28x28 ins.	60.00	90.00
30x30 ins.	70.00	105.00
32x32 ins.	80.00	115.00
36x36 ins.	90.00	140.00
40x40 ins.	100.00	165.00
25x36 ins.	60.00	120.00

40 ins., 8 oz. (used) strip burlap.

9 1/2 c. yd.

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300 to 500-lb. lots	17.50 cwt.

Delivered prepaid in lots of 300 or more lbs.

WATSON POTS

Reinforced rolled rim, strong, tough paper, stapled bottoms.



	Top Diam.	Bottom Diam.	Height	Quantity Per Case	Weight per Case	Per 1000
No. 6	6 ins.	5 ins.	6 ins.	150	58 lbs.	\$ 52.50
No. 7	7 ins.	6 ins.	9 ins.	100	50 lbs.	70.00
No. 8	8 ins.	7 ins.	9 ins.	50	35 lbs.	84.50
No. 8S	8 ins.	7 ins.	6 ins.	75	35 lbs.	70.00
No. 8D	8 ins.	6 ins.	11 ins.	50	45 lbs.	92.50
No. 10	10 ins.	8 ins.	10 ins.	50	40 lbs.	120.00
No. 12	12 ins.	10 ins.	12 ins.	25	35 lbs.	234.00

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ROUND POTS

	2 ins.	2 1/2 ins.	3 ins.	4 ins.	6-in. Tub	6-in. Rd.
Per 1000	Per 1000	Per 1000	Per 1000	Per 1000	Per 1000	Per 1000
\$8.50	\$11.50	\$17.00	\$32.00	\$105.00	\$120.00	
1000	1000	1000	500	120	120	
Per Case	Per Case	Per Case	Per Case	Per Case	Per Case	

SQUARE POTS

	2 1/4-in.	3 ins.	4 ins.
Per 1000	Per 1000	Per 1000	Per 1000
\$10.00	\$17.00	\$32.00	
1000 per Case	1000 per Case	500 per Case	

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BIRD'S VITA-BANDS

Type D will disintegrate. No. 10 good for 10 to 12 weeks, Type H for longer periods. All nutrient treated. Price per 1000.

	TYPE D	No. 10	TYPE H
1 3/4 x 2 1/2 ins.	\$5.30	\$5.15	\$ 6.25
2 x 2 1/2 ins.	5.50	5.40	6.60
2 x 3 ins.	6.20	5.90	7.75
2 1/2 x 3 ins.	6.45	6.40	8.30
3 x 3 ins.	7.25	7.10	8.70
4 x 3 ins.	9.45	9.20	10.70

F.O.B. Dayton. Freight prepaid orders 150 lbs. or more. Write for low prices on quantity orders.



BIRD PEAT POTS

Prices per 1000	2 1/4-in. Round	3-in. Round	2 1/4-in. Square	3-in. Square
2000 to 18,000	\$7.25		\$7.50	
20,000 to 74,000	6.75		7.00	
76,000 and over	6.25		6.50	
2000 to 8000		\$13.40		\$14.50
10,000 to 48,000		12.45		13.25
50,000 and over		11.65		12.00

Weight per case, 22 lbs. 38 lbs. 24 lbs. 42 lbs.
Packed 2000 per case.

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Disintegrating green pots containing nutrients. Stands up longer than peat pots. No transplanting.

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2000 to 18,000	\$7.25; 20,000 to 74,000, \$6.75;
76,000 and up	\$6.25.
	2 1/4-in., 2000 per case
2000 to 18,000	\$8.35; 20,000 to 74,000, \$7.80;
76,000 and up	\$7.20.
	3-in., 2000 per case
2000 to 8000	\$13.40; 10,000 to 48,000, \$12.45;
50,000 and up	\$11.65.
	3 1/4-in., 1000 per case
2000 to 8000	\$14.95; 10,000 to 48,000, \$13.90;
50,000 and up	\$13.00.
	4-in., 1000 per case
2000 to 8000	\$17.25; 10,000 to 48,000, \$16.10;
50,000 and up	\$15.00.

F.O.B. Dayton. Freight prepaid, 150 lbs. or more, Vita-Bands and/or Peat Pots.

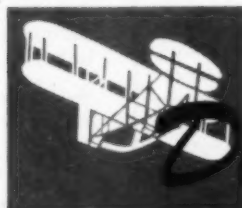
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Virgin Polyethylene Film

Sq. Ft. Per Roll	Per Roll	Sq. Ft. Per Roll	Per Roll
.0015 ins. (1 1/2 mil)		.004 ins. (4 mil)	
Black for Mulching		Natural Clear or Black	
*3x500 ft.	1500 \$ 7.47	10x100 ft.	1000 \$13.50
3x1000 ft.	3000 14.96	12x100 ft.	1200 15.96
4x1000 ft.	4000 19.94	16x100 ft.	1600 21.28
.002 ins. (2 mil)		20x100 ft.	2000 26.40
Natural Clear Only		24x100 ft.	2400 31.92
*4 ft. 2 ins. x 200 ft. 833	5.55	28x100 ft.	2800 37.24
*8 ft. 4 ins. x 200 ft. 1667	11.10	32x100 ft.	3200 42.56
12x200 ft.	2400 15.96	40x100 ft.	4000 53.20
.004 ins. (4 mil)		.006 ins. (6 mil)	
Natural Clear Only		Natural Clear Only	
*3x100 ft.	300 4.00	*6x100 ft.	600 11.97
*4x100 ft.	400 5.32	12x100 ft.	1200 23.94
*6x100 ft.	600 7.98		
*8x100 ft.	800 10.65	.006 ins. (6 mil)	
14x100 ft.	1400 18.62	Natural Clear or Black	

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PENINSULA CHAPTER

The June 11 meeting of the Peninsula chapter of the California Association of Nurserymen was held at the Golden Doors restaurant, Los Gatos, with 83 members and suppliers present.

In addition to a resume of the refresher course held at the California State Polytechnic College, San Luis Obispo, presented by President Charles Burr, California Garden Supply Co., Palo Alto, and Kenneth Hartman, Leonard Coates Nurseries, San Jose, the program consisted of the showing of recent rose introductions and other roses that will be available in the future.

George Haight, Western Nurseries, Inc., San Jose; Walter Borchers, and John L. Hahn displayed and discussed such future roses as Suspense, Fascinating, Simone and a floribunda hybridized by Svend Poulsen. They also showed the 1959 All-America Rose Selections winners, Fire King, Sarabande and Garden Party, along with El Capitan, Golden Girl, Royal Velvet, Josephine Bruce, High Time, Sterling Silver, Pinafore, Fantan and 10 or 15 earlier introductions.

Guests at the meeting included Mr. and Mrs. Ray Hartman; Mr. and Mrs. Gordon Wallace; Emil Stiefvater, president of the San Mateo County Rose Society, and Mrs. Stiefvater; Mrs. Mollie Haight, and John and Julia Kirby.

Roy Dutton, Sec'y.

REDWOOD EMPIRE CHAPTER

President Karl Untermann, West End Nursery, San Raphael, presided at the meeting of the Redwood Empire chapter of the California Association of Nurserymen held at Rickey's Rancho San Raphael, San Raphael, June 9.

Guest speaker for the evening was Pressley Neville Jones, insurance consultant for the nurserymen's association. Other guests were Mr. and Mrs. Henriod, owners of Springett's Outdoor Store, Mill Valley.

After introductions, President Untermann called for the reading of the minutes, which were accepted as read. The secretary read a letter from the Centinella chapter, announcing its intention to present the

name of Robert T. Warner, Manhattan Garden Supply, Manhattan Beach, in nomination for vice-president at the coming state convention. Mr. Warner is chairman of the "Plant California" committee of the C. A. N. and has spent many years in the nursery business, on both the wholesale and retail levels. Besides being a past president of the Centinella chapter, he has been mayor of the city of Manhattan Beach and was awarded the Roll and Scroll honor for outstanding service to his community.

Harold Prickett, Santa Rosa, reported that the recent short course held at California Polytechnic College, San Luis Obispo, was one of the most successful in its 11-year history. Most of the program was presented by members of the industry and was practical in relation to the individual nurserymen. Nine members of the Redwood Empire

chapter were among the more than 200 persons attending.

It was announced that Henry Martin, Sebastopol; James Gaddis, Santa Rosa, and Don Perry, Montebello, would serve on the nomination committee. August 16 will be the date for the annual picnic. The annual convention will be held in September. The "Calling All Neighbors" fall sale is scheduled for October.

The chapter directors accepted the application for membership from the Mid City Nursery, Vallejo, owned and operated by John J. Milojcick.

The plant table display was small in quantity. President Untermann showed several varieties of miniature roses. Richard Lackey, Lackey's Nursery, Napa, showed a variety of clematis.

A program on insurance was then presented by Mr. Jones. In addition to donating two briefcases, which were won by Mrs. Henry Martin and Mrs. Ken Smith, and giving many pencils to persons asking questions, Mr. Jones gave some valuable advice on insurance problems. He also announced that the various programs are now open again for old members of the association.

Hugh Wallace, Sec'y.

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Flowering Cherry, Weeping and Standard

Flowering Plum, in variety

Flowering Crab Apple, in variety, over 20 varieties

Flowering Peach, in variety.

Birch, Cut-leaved, European White and Clump.

European White Birch, S., 1-yr., 9 to 12 ins., 12 to 18 ins., 18 to 24 ins. and 2 to 3 ft.

Tulip Tree, Globe and Idaho Locust, Catalpa speciosa.

Thornless Honey Locust

Maple Trees, in variety, 1 and 2-year-old

Maple Trees, in variety, 1 and 2-year-old: Norway — Globe and Columnar, Goldsworth Purple, Faassen's Black, Silver and Rubrum

Hawthorn, 1 and 2-year-old: Paul's Scarlet, Double Pink, Cordata and Carrierei

Ash, Green, Modesto and European Mountain

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NEW PINK HEATHER ALYSSUM

ORIGINATED BY FERRY-MORSE

Seed from Ferry-Morse's new Pink Heather Alyssum, the only medal winner in the All-America Selections for 1959.

Pink Heather blooms into a soft lavender-pink—striking a deeper shade in cool climates and ranging to delicate tints during the hot dry midsummer.

It has the vigor and blooming habits of Little Gem. Compact plants average 6 inches in height and produce profuse blooms which continue into the fall.

Seed stocks are limited. Order now for assured delivery.

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1-yr., S., field-grown, row-run,
\$5.00 per 100; \$40.00 per 1000

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\$7.00 per 100; \$60.00 per 1000

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Our combination carlots for east-
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Hybrids and Species
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Established 1930

TRAINING IN CALIFORNIA

Report has just been issued of a study in the training requirements of workers in the production and distribution of nursery plants, sponsored by the bureau of agricultural education and the bureau of business education of the California state department of education.

The report reflects the importance of the nursery business as a phase of agriculture, more particularly in the state of California. The survey was conducted by O. E. Thompson, assistant professor of education at the University of California, Davis.

In 29 planographed typewritten pages the report sets forth the historical background of the problem; pointing out the importance of the industry in recent years; outlining the procedure of the survey, and presenting the findings, conclusions and implications. There is also a presentation of data supplied and supplementary information covering suggestions for starting the training in high school, typical schools now teaching ornamental horticulture, sample courses of study and a course outline.

The survey form received by the nurseries supplying the information appears in an appendix of four pages.

This study is of importance not only in California, where the increasing interest in the nursery business and its sales importance have led to schooling workers for the industry in high schools, trade schools and colleges, but the report is also likely to be studied as a guide to the needs and possible training of workers in other states.

WALLACE AT NEW POST

Hugh Wallace, formerly of Ihle-Birchlane Farm, San Raphael, Calif., recently took up new duties with the Golden Gate bridge and highway district, in charge of the landscape maintenance. Mr. Wallace, a graduate of California State Polytechnic, San Luis Obispo, started at Birchlane Farm in 1946, after being discharged from the army, and was manager at the time he left.

Before Mr. Wallace took up the new position, he and his wife sailed aboard the Matsonia for a two weeks' stay in the Hawaiian islands.

EGGER & SON EXPANSION

Egger & Son Nurseries will double the capacity of the establishment at La Goma and Sycamore streets, Mill Valley, Calif., with a \$60,000 building project now under way. The



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WITH THE RIGHT PACKAGE

ROOT-SAK* illustrates Western-Waxide's leadership in the field of nursery packaging. Specifically designed for the packaging of roses, it is a heat-sealed bag made from a special combination of aluminum foil, paper, and polyethylene. Root-Sak gives you: *Increased SALES... By Design!* Root-Sak creates "impulse sales." Vivid illustrations and colors stop shoppers—turn them into buyers. Your brand identification becomes an integral part of the package design. Next time customers ask for *your* plants—by name! *Increased PROFITS... By Design!* Because it is designed for machine packaging, Root-Sak keeps labor costs low. Polyethylene retains necessary moisture, lengthens shelf-life, reduces complaints. *In nursery packaging*, it pays to call on a specialist. Whatever your needs, Western-Waxide has the experience and facilities to give you the *right* package. Write today for free samples and literature to Nursery Packaging, 2101 Williams St., San Leandro, California.

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WESTERN-WAXIDE NURSERY-TESTED PRODUCTS—ROOT-SAK • LINERS FOR BULK SHIPMENT (plain or printed polyethylene-coated kraft sheets) • CARTONS AND SHIPPING CONTAINERS (plain or printed) • WRAPPERS FOR TREES AND LARGE SHRUBS • POLYETHYLENE-COATED FOIL AND KRAFT SHEETS • PAPER AND FOIL FOR HAND PACKAGING OF ROSES AND SHRUBS • FLORIST TISSUE



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you will, when you order your nursery stock from May Nursery Co. . . for no nursery has people more eager to serve and more dedicated to the idea that each plant be strictly of the best! May we serve you with choice

Yakima Valley grown fruit tree seedlings, fruit trees, roses, shade and ornamental trees, deciduous shrubs and general ornamental stock? Our wholesale price list will be sent upon your request.

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SINCE 1909

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Choice Yakima Valley Grown Nursery Stock for Over 50 Years

PORTLAND WHOLESALE NURSERY CO.

5050 S. E. STARK ST.

Avery H. Steinmetz
Paul E. Van Allen

PORTLAND 15, OREGON

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Should you visit Oregon this centennial year we would be pleased to show you the fields that produce the quality of Oregon-grown nursery stock.

Quality Stock

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EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

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Malling—EM II, VII, IX and XVI

PEAR ROOTSTOCKS

Quince—A, B and C

Old Home on own roots—

Old Home rooted cuttings.

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Medford, Ore.

Write for List Today

H & S Personality Roses

Bred for American Gardens

HOWARD & SMITH, INC.
Montebello, Calif.

Feader Wholesale Nurseries

Fine Perennials—Hard to find items!
GERBERAS—STRELITZIAS—DAISIES
Write for our CATALOG and let us add your NAME to our list of satisfied customers!

Feader Wholesale Nurseries

P. O. Box 4284 San Fernando, Calif.

new design was made under the direction of architect Michael Wornum, Mill Valley.

A landscaped and shaded walkway leads to the new entrance on La Goma street. The expansion will include over 10,000 square feet of new lath house. James E. Egger, of the nursery firm, said construction is slated for completion early this fall.

At present the nursery firm is conducting a sale at its two branches to clear stock for the construction work.

H. W.

OREGON NOTES

James Doty, Doty & Doerner, Inc., Portland, representing the Sunset chapter of the Oregon Association of Nurserymen; Pete Nuffer, Mountain View Nurseries, Troutdale, Columbia River chapter; Joe Klupenger, Klupenger Nursery, Portland, Rose City chapter; Robert Snodgrass, Esch Nursery and Seven Dees Nursery, Portland, president, O. A. N., and Charles H. Potter, Milwaukie, executive secretary, O. A. N., met recently at the Portland Wholesale Nursery Co., Portland, to lay the groundwork for a nurserymen's meeting to be held at Gearhart September 24 to 26. Inasmuch as the state association no longer holds a summer meeting, the three chapters of the O. A. N. mentioned plan to spearhead the meeting at the Gearhart hotel, which will be open to all members of the O. A. N. in the state and any other nurserymen, in or out of the state, who wish to attend. The name chosen for the meeting was the nurserymen's Indian summer session. The dates selected will permit parents to have their children established in school before taking them out for the family-type meeting. Among the events planned for the meeting will be a round-table discussion, prize drawings, a no-host cocktail party, a buffet supper, a golf tournament, a ping-pong tournament, swimming, and a western clambake, with prizes for the best cowboy or Indian costumes. Advance registration is planned.

The Willamette chapter of the O. A. N. held a picnic June 25 at Pringle park, Salem. After the meeting, Jock Brydon, Brydon's Nursery & Seed Store, Salem, showed slides and talked about rhododendrons.

The Emerald Empire chapter of the O. A. N. held a dinner meeting at Ford's dinner house, Eugene, June 25.

The Cascade chapter of the O. A. N. held a potluck picnic meet-

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ing at the M. Lehne Nursery, Roseburg, June 30.

The Sunset chapter of the O. A. N. staged a dinner meeting June 15 at the Forest Hills Country Club, Cornelius. Preceding the dinner, a duffers' golf tournament was scheduled, with Wayne Melott and Lynn Brooks, Carlton Nursery, Forest Grove, and James Doty, Doty & Doerner, Inc., Portland, in charge.

The Rose City chapter of the O. A. N. held a dinner meeting at the Chinese Village, Portland, June 17.

The Clackamas chapter of the O. A. N. held a dinner meeting at Seid's restaurant, Oregon City, June 23. C. J. Weiser, Oregon State College, Corvallis, talked about propagation methods.

Oregon State College has issued an Oregon Plant Disease Control Handbook, prepared as a ready reference for county agents, commercial spray applicators, seed and garden supply store operators and others interested in plant disease control. The 215-page book sells for \$2.50 per copy.

According to word received from Dr. A. N. Roberts, horticulturist, Oregon State College, the dates of February 2 to 3, 1960, have been set for the next annual Oregon nursery and ornamental short course.

Bob Mullison, A. McGill & Son, Fairview, left May 1 for a business trip which takes him through the middle west and east. He was scheduled to attend the convention of the American Association of Nurserymen and is due to return home around the first part of August. The extensive trip was made necessary by the death of Frank C. Donovan, Euclid, O., eastern representative of A. McGill & Son. John McIntyre, of the McGill firm, and his wife left for Hawaii June 14 for a two weeks' vacation.

A full-page article on iris in the May 31 issue of the Sunday Oregonian Home and Garden section dealt with varieties of iris developed by Walter Marx Gardens, Boring, Ore. In the June 7 issue of the Oregon Journal's Northwest Living magazine, a similar full-page article dealt with the Walter Marx Gardens' iris.

In connection with the 71st annual Portland rose show judging, Mike Dering, Peterson & Dering, Rose Growers, Scappoose, was pictured in the Oregonian as one of the experts who judges the rose contests held at Portland.

The week of June 8 to 14 was rose festival week at Portland, and roses were blooming there in profusion. The Oregon Centennial Exposition

8-Year PROOF from "Proof of the Pudding"

"Since 1950, when numerical ratings were first given (from reports by American Rose Society Members) only 4 roses have been 9.0 or above:

PEACE, H.T.	9.4
CARROUSEL, Gr.	9.0
FASHION, Fl.	9.0
CINDERELLA, Min.	9.0"



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"CARROUSEL"

Exquisitely formed, dark red velvety-petaled flowers . . . one of America's few TRULY RED ROSES! . . . produced in continuous abundance on long stems, have made Carrousel a champion variety in all parts of the nation . . . a tall-growing, very hardy plant . . . with handsome foliage . . . resists cold, heat and mildew.

CLIMBING CARROUSEL—FIRST to be classed as a grandiflora, now zooms as a CLIMBER!

"LITTLE DARLING"

Never before a floribunda like this! Hardy, disease-resistant . . . grows anywhere without special care . . . like a summer sunset . . . brilliant hues from lurid red-orange on outer edges to rose-pink tones melting to buttercup-yellow center . . . large 2½-inch, near-perfect flowers on long stems (keep up to 6 days) . . . rarely without blooms.

"LADY LUCK"

Acclaimed by many leading growers, one of the most outstanding of all pink hybrid tea roses . . . rich in the rare La France exquisite perfume . . . carried by a large dainty pink bloom . . . long bud on long stems . . . strong bush . . . shiny foliage . . . happy in heat and cold . . . excellent cut flowers . . . achieved 6th place . . . popular vote . . . among 30 new introductions since 1955.

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QUALITY LINERS

Write for our catalog listing over 450 varieties.
See our ad in the March 15 issue, on page 27.

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Aurora, Ore.

Rhododendron Liners • Hardiest Camellias
Northern California Grown Dormant Roses
Azaleas • Pieris • Hollies • Lilacs • Skimmia

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Skimmia japonica
General Nursery Stock
May we quote you?
ALFRED TEUFEL
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CUTTING-GROWN RHODODENDRON LINERS

Hardy and semihardy varieties.
Quality only
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You can be sure of receiving the well-grown plants that you would expect when you order from our complete line of container-grown ornamentals—trees.

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FRUIT TREE SEEDLINGS
FLOWERING ORNAMENTAL TREES
SHADE TREES

Licensed Growers of

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in Quality Stock

Combination carloads to eastern
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Write for our list.

ROSES OLD and NEW

Fine-quality, two-year plants
budded on Multiflora in over
250 varieties.



MT. HOOD NURSERY

Rt. 2, Box 96
GRESHAM, ORE.

and International Trade Fair also opened its doors at Portland during the week. A major feature of the latter was the "Garden of Tomorrow," which was constructed and supplied with plants by nurserymen and landscape gardeners of the state.

C. H. P.

PEACH BORER CONTROL

Excellent control of peach tree borer was obtained with Thiodan and endrin in tests conducted in 1957 and 1958 by the University of California in an effort to find a more effective control for the pest than DDT. The studies were reported in a recent issue of California Agriculture, a publication of the university's division of agricultural sciences, by Harold F. Madsen and Ross R. Sanborn, associate entomologist, University of California, Berkeley, and farm adviser, Contra Costa county, respectively.

Used in the tests were sprays of DDT, endrin, Thiodan and Guthion. Each of these was applied monthly and bimonthly to the trunks of 12 trees, from the main crotch to the soil line, which were wet to the point of runoff. The trees were Blenheim apricots, growing in an orchard near Brentwood that had a history of severe peach borer attack.

Thiodan and endrin at both monthly and bimonthly intervals gave excellent control of the borer. The 12-tree plots given monthly sprays of Thiodan (2.0 miscible) at the rate of one gallon to 100 gallons of water and those given bimonthly sprays of endrin (1.6 miscible) at the rate of one quart to 100 gallons of water showed a complete absence of the pest at the end of the season, while check plots of 12 trees each showed evidence of attack by as many as 82 borers.

Tests are being continued this year on reduced concentrations of these compounds to determine whether the dosages used in 1957 and 1958 were higher than necessary.

COMMERCIAL PITANGAS

The only commercially grown pitangas in the United States are now being produced at Nelson Westree's orchard at Carlsbad, Calif. The plant, native to Brazil, has berries similar to large cherries, which are claimed to be suitable for jams and jellies, having soft meat and a rich flavor.

Pitangas bear twice a year, six weeks apart, with different strains ripening from October to February on the west coast, according to Mr. Westree. He feels that they make a

MOUNTAIN-GROWN DWARF MAHONIA AQUIFOLIUM PLANTS

Our plants are grown from U. S. D. A. inspected, selected seed, under 24 ins. Subject to temperature minus 30 degrees to plus 100 degrees, rainfall 17 ins. Ideal broad-leaved evergreen for any climate.

Minimum Order

1-yr., T.	100	\$12.00
1 to 2 ins., S.	1000	80.00

PEONY LINERS

Festiva Maxima..	100	25.00
Mons. Jules Elie..	100	25.00
Officinalis rubra..	100	25.00
Mixed	100	20.00

Cash with order. Stock may be returned in 5 days. Old established nursery—25 years in northwest Washington.

MAYHAN NURSERY
Veradale, Wash.

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The MALLING-MERTON STORY

The story of the Malling Apple rootstocks from IX to XVI—and their successors, the M. M.'s 104, 106, 109, 111 and M.XXV. Performance figures, etc. Free for the asking.

CHICK -A- DEE GARDENS NURSERY
Sherwood, Ore.

Steele's New • Enlarged • Revised
1958 Handbook of

PANSY CULTURE only 50c

Steele's Pansy Gardens, Inc.

P. O. Box 4555

2715 S. E. 39th Ave. Portland 2, Ore.

PROPAGATION OF PLANTS

By Ruins and McQuenten.

Seed testing, layerage, division, separation, rooting cuttings, grafting, budding, stock and scion handling, nursery management and pest control. 637 p. (1942). Price, \$6.95, postpaid.

AMERICAN NURSERYMAN
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good commercial crop, because they bear through the winter when no other fruit is available. For the past 11 years Mr. Westree, a specialist in experimental horticulture, has been doing selective work and grafting to find durable strains among the plants.

CHERRY ROOTSTOCK STUDY

Seedlings of both Mahaleb and Mazzard cherry have long been used in the United States as rootstocks for improved varieties of sweet and sour cherries, and a difference of opinion exists as to the relative merits of the two species.

Many nurserymen prefer Mahaleb because of its ease of propagation and fast-growing qualities, but seedlings of Mahaleb, as well as those of Mazzard, are extremely variable in form and growth. Early studies in Pennsylvania showed that the difference between trees on various strains of Mahaleb seedlings was greater than the difference between trees on Mahaleb and Mazzard seedlings.

Studies undertaken five years ago by the agricultural experiment station, Oregon State College, Corvallis, to explore the possibilities of clonal propagation of Mahaleb rootstocks were reported by A. N. Roberts, O. S. C., in a recent issue of the station's publication, Oregon Ornamental and Nursery Digest.

Selected clones of *Prunus Mahaleb* were propagated, under intermittent mist, from softwood cuttings taken in August. These clones represented a range of Mahaleb types from extremely vigorous upright-growing trees to small dwarf shrubs. When used as rootstocks for Montmorency sour cherry, the clones produced nursery trees varying widely in vigor and in root and scion habit, indicating that the best strains of Mahaleb can be selected and propagated vegetatively as uniformly superior rootstocks. Dwarfing types similar to those found in apple stock may also exist.

The trees produced at Corvallis have been planted in commercial orchards to determine whether long-term orchard performance will justify the added expense of this method of propagation.

RECENTLY opened at El Cajon, Calif., was Nurseryland Garden Center, by Wieland H. (Butch) Collins. The firm's 5-acre site, located at Fletcher parkway and Magnolia boulevard, is occupied by a store, lath house and growing grounds.

Another bumper crop of

MATLIN'S ROSES

Coming out in December

- Skillfully grown
- Carefully harvested
- Generously graded
- Expertly packed

To get your share—book early!

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Amazing "RITE IN THE RAIN" . . . The only truly waterproof paper label . . . lasts seasons longer in any weather. Separate or ganged, plain or printed. Priced as low as \$1.90 per thousand.

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Write for free samples and prices | J. L. DARLING CORP., Browns Point, Tacoma, Wash.

NURSERY MANUAL, by L. H. Bailey. Standard manual on propagation. 470 pages (1920) **\$6.75**. American Nurseryman, Chicago 4, Ill.

CLASSIFIED ADS

Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the August 1 issue must be received by Friday, July 10.

Forms for August 15 issue will close Friday, July 24.

AZALEAS

BECKY AZALEA
Patent No. 1699.
Longer lasting flower!
ROOTED CUTTINGS,
\$27.50 per 100, \$250.00 per 1000,
including patent labels.
Minimum order 100. For extra savings,
buy 500 at 1000 rate!
VOSTERS NURSERIES & GHSES., INC.
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LINING-OUT STOCK

Transplants from flats, 4 to 5 branches,
\$15.00 per 100, \$130.00 per 1000; 3 to 5,
10c each; 5 to 6, 50c each.
Lining-out stock of Evergreens. Ask for
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It will pay you to request our wholesale
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glad you did.

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Do you prefer quality? Send for our reason-
able prices. We have for you Tulips,
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Several thousand good, sheared, compact,
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Write for prices.

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FLORETUM COLORFUL GARDEN MUMS
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early blooming, frost tolerance, winter hardi-
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5 each, 20 varieties, 100 plants ...	\$ 10.00
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10 each, 150 varieties, 1500 plants ...	100.00
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EVERGREENS
Rooted cuttings, Per 100 Per 1000
Taxus cuspidata, 6 to 7 ins. ... \$9.00 \$85.00
Taxus fastigiata, 6 to 7 ins. ... 9.00 85.00
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Juniperus glauca hetzi, 6 to 8 ins. ... 8.00 75.00

1-yr. from frames
Taxus cuspidata, 6 to 10 ins. ... 15.00 140.00
Taxus fastigiata, 6 to 10 ins. ... 15.00 140.00
Terms: 2 per cent discount for cash, or 1/3
down with order and balance before ship-
ment.

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EVERGREENS, LINERS AND CUTTINGS
2-YR., POT-GROWN STOCK, 7 to 9 INS.,
SHEARED, 28c each, per 1000 rate; 30c each,
per 100 rate.

Arborvitae, pyramidal, globe, elegantissi-
ma; Biota aurea nana; Junipers, pfitzeriana
com., hetzi glauca; Taxus, media No. 8,
browni, hatfieldi, intermedia, hicksi, andersoni,
cuspidata, media, Adams' columnaris.
ADDITIONAL STOCK, 2-YR., 2½-in. pots
20c each, per 1000 rate; 22c per 100 rate.
Euonymus alatus compactus, Korean Box-
wood, Buxus sempervirens, Euonymus Sar-
coxie.

SPECIAL OFFER: Send remittance for
200 2½-in. potted liners (no more, no less).
We will send 250 plants (your selection)
prepaid.

HEAVY ROOTED CUTTINGS, 1-YR. OLD
12c each, per 1000 rate; 13c per 100 rate.
Junipers, glauca hetzi, armstrongi; Arbor-
vitae elegantissima, Taxus hicksi, T. inter-
media, T. cuspidata, T. andersoni, T. media,
sp. comp., T. hatfieldi, T. browni, T. capitata
fastigiata.

ADDITIONAL ROOTED CUTTINGS, 1-YR. OLD
8c each, per 1000; 9c per 100 rate.

Euonymus, erectus, Sarcoxie, alatus com-
pactus, vegetus; Buxus sempervirens, Korean
Boxwood.

SPECIAL OFFER: Send remittance for
200 rooted cuttings (no more, no less). We
will send 250 rooted cuttings (your selection)
prepaid.

TERMS: Packing and boxing free. 3 per
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ROOTED CUTTINGS FROM GREENHOUSE
Burford Holly 6c each
Compact Pfitzer Juniper 6c each
Lonicera nitida (dwarf) 6c each
American Boxwood 7c each
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2½-IN. POTS, OPEN BEDS
Hex cascade 15c each
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Hex crenata repandens (peat pots) 15c each
Hex crenata rotundifolia 15c each
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Hex cornuta rotunda (dwarf) 20c each
Hex vomitoria 15c each
Hex East Palatka 15c each
Lonicera nitida (dwarf) 15c each

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HEAVILY ROOTED CUTTINGS

Per 100 Per 1000
Arborvitae woodwardi (globe),
6 to 8 ins. \$ 8.00 \$ 75.00
Juniperus glauca hetzi, 8 to 10 ins. 8.00 75.00
Juniperus hibernica, 8 to 10 ins. 8.00 75.00
Taxus cuspidata, 6 to 8 ins. 9.00 85.00
Taxus hatfieldi, 6 to 8 ins. 9.00 85.00
Taxus hicksi, 6 to 8 ins. 9.00 85.00

1-YR. TRANSPLANTS
Taxus cuspidata 13.00 120.00
50 at 100 rate; 300 at 1000 rate.

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LANDSCAPE MATERIAL
QUANTITY BUYERS ATTENTION!
1000 Colorado Spruce, 4, 5 and 6 ft.
1500 White and Norway Spruce,

4, 5 and 6 ft.
Priced reasonable for quality trees.
Transplanted. Good soil. Easy access.
Fall 1959. Spring 1960.

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SPRUCE
Block of 2500 Black Hills Spruce,
4, 5 and 6 ft., well shaped,
clean, good color.
Block accessible
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SHEARED STOCK, GOOD BALL

Biota aurea nana, 15 to 18 ins. \$1.00
Euonymus japonicus, 24 to 30 ins. 1.50
Euonymus patens, 18 to 24 ins.50
Ilex rotundifolia, 12 to 15 ins. 1.35
Juniperus excelsa stricta, 15 to 18 ins. 1.00
Juniperus glauca hetzi, 15 to 18 ins. 1.35
Juniperus hibernica, 18 to 24 ins. 1.00
Taxus cuspidata, 15 to 18 ins. 2.50
Taxus media hicksi, 18 to 24 ins. 2.50
Thuja occ. globosa, 12 to 15 ins. 1.00
Thuja occ. pyramidalis, 15 to 18 ins. 1.00

Write for complete wholesale price list.
SO. JERSEY COLONIAL NURSERIES, INC.
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Taxus, Ilex, broad-leaved Evergreens, etc.,
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The nation's finest quality paper-shell
Pecan trees. Vigorous, heavy caliper, smooth
trees, grown under irrigation. All staked
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dug with the whole fibrous root system in-
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Free planting guide for your customers.
Order now while selections are complete.
Varieties available: Stuart, Success, Mahan,
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PRICES

	10	50	100
6 to 7 ft.	\$3.30	\$3.20	\$3.10
7 to 8 ft.	3.85	3.75	3.65
8 to 10 ft.	4.45	4.35	4.25

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Box 2000 Stephenville, Tex.

FRUIT TREE LINERS

Peach, Apple, Plum, Pear, Cherry.
Reasonably priced. Send want list.
GLOBE NURSERIES
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QUALITY GERANIUM CUTTINGS
Unrooted, \$4.50 per 100, \$40.00 per 1000;
rooted, \$8.50 per 100, \$80.00 per 1000. Spe-
cial varieties slightly higher. Catalog ad
over 150 leading varieties free.
C. SECRIST, MUSCATINE, IA.

GROUND COVERS

PERIWINKLE

Hardy running Myrtle (Vinca minor),
heavy 15 to 25-cane clumps of better than
ever quality, dug and shipped fresh, \$50.00
per 1000.
Honeysuckle (Hall's halliana), 2 to 3
branched, \$45.00 per 1000.
English Ivy (Hedera helix), 1-yr., rooted
cuttings, \$50.00 per 1000.
Pachysandras, 1-yr., rooted cuttings, \$50.00
per 1000.

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Box 41, Upper River Rd. Gallipolis, O.

BEARBERRY

(ARCTOSTAPHYLOS UVA-URSI)
Ideal evergreen ground cover for sandy
acid soil. Nice, strong plants from 3-in. pots.
Ready for shipment July 1. \$50.00 per 100,
\$450.00 per 1000. 2¢ at 100 rate; 25¢ at 1000
rate. Cash with order, please. No C.O.D.

MAYFAIR NURSERIES
R. D. 2 Nichols, N. Y.

Hardy Myrtle (Vinca minor), plants with
20 leads or more and good roots, \$5.00 per
100, \$45.00 per 1000. Pachysandras, sand-
rooted cuttings, \$40.00 per 1000. English Ivy,
sand-rooted cuttings, \$40.00 per 1000. Cash.
Also potted stock of all items listed.
Samuel I. Minder, 205 Euclid Ave., Lan-
caster, Pa.

HARDY MYRTLE

25 lead average, \$8.00 per 100, \$50.00 per
1000; \$45.00 per 1000 for 5000 or over.
Clumps, out of 2-in. pots, 10c each.
VAUGHAN'S NURSERY
R. R. 2 Granger, Ind.

HARDY PLANTS

DICENTRA SPECTABILIS
Per 50 Per 100 Per 1000
2 to 3 eyes \$12.00 \$20.00 \$175.00
3 to 5 eyes 16.00 30.00 275.00
4 to 6 eyes, extra heavy roots, \$5.00 per 12.
\$9.50 per 25, \$18.00 per 50, \$35.00 per 100,
\$325.00 per 1000.

Total of 250 roots at 1000 price.
Nice, strong roots, grown at our farm.
Write for quotation on large quantities.
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BLEEDING HEARTS

Peonies, Irises
and other plants.

ROBINSON GARDENS

Since 1915 Scotts, Mich.

HARDY PLANTS

Wholesale growers of Phlox, outdoor
Chrysanthemums and a large assortment of
other perennial plants.

Write for trade list.

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PERENNIALS

Strong field-grown plants. Write for trade

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PITZONKA'S PANSY FARM & NURSERY

Bristol, Pa.

PERENNIALS

Over 600,000 plants.

Over 475 varieties of choice premium stock.

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Mentor, O.

America's best source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

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SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.

PEARCE SEED CO., Moorestown, N. J.

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WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

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HELLEBORUS NIGER

(Christmas Rose)

3-yr. transplants, blooming size.

Suitable to pot up for sales on roadside

stands and garden centers.

\$50.00 per 100, \$450.00 per 1000.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

HEMEROCALLIS

HEMEROCALLIS

The real perennial with a great future,

grows anywhere, can be planted any time.

We have a large stock of the better varieties

at very reasonable prices. Send for list.

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HOLLIES

3 yrs., twice cut back; compactly branched.

Flex opaca liners. Only Clark, Cardinal, Ar-

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quantities of 25 or more, \$1.65 each, lots of

25, 20 per cent discount, 100 or more. Shipped

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SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

OF LINING-OUT STOCK

Write for price list.

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Box 75 New Lisbon, N. J.

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HONEYSUCKLES

Lonicera japonica halliana, extra-heavy

No. 1, 3 and 4-yr., 18 to 24-in. field plants.

2, 4 to 6 leads, \$40.00 per 1000; lighter

grade, \$30.00 per 1000; sample, 100, \$4.00.

Experienced labor for grading and packing

quantity orders. Immediate shipment. No

order too large. Phone OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

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IRIS CRISTATA ALBA

Rare, dwarf white crested Iris, \$20.00 per

100, \$175.00 per 1000. Ready for shipment

July 15. Cash with order, please. No C.O.D.

25 at 100 rate; 250 at 1000 rate.

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R. D. 2 Nichols, N. Y.

IRISES, WHOLESALE LIST

No finer Irises anywhere than we grow in
Idaho. Fine strong rhizomes from 1-yr.
clumps.

Following Irises, \$1.50 for 10.

Bandit, Blue Shimmer, Blue Rhythm, Blue
Valley, Chantilly, China Maid, Chinook Pass,
Chivalry, Clifford, Cuban Carnival, Concord
Velvet, Dawn Reflection, Daybreak, Easter
Bonnet, El Paso, Garnet Glow, Gay Border,
Great Lakes, Golden Frills, Illinois Sunshine,
Interlude, King's Jesters, Lady Mohr, Light-
house, Mohrson, Mystic Melody, Mulberry
Rose, Norah, Rajah Brooke, Salmonette,
Song of Songs, Three Cheers, Velvet Dusk,
Voodoo, Wabash, Windsor.

Following Irises, \$2.00 per 10.

Alline Rogers, Arlene Woods, Black Or-
chid, Blue Elegance, Blue Mohr, Blue Para-
keet, Candy Stripe, Cardinal's Robe, Cen-
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Gala Finale, Harlequin, Heritage, Hit Parade,
Honor Bright, Mexico, New Hope, New Snow,
Ola Kala, Pacemaker, Paradise Pink, Pin-
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sheen, Ten Sheep.

Following Irises, \$2.50 per 10.

Cahokia, Escapade, Flurry Mohr, Jane
Phillips, Leading Lady, Malay, Purrisimohr,
Raven's Wing, Spanish Peaks, Sun Ray,
Tango, Weatherbird, White Tower.

Following Irises, \$2.00 per 10.

Argus Phoebe, Bethel, Fabulous Kate,
Fantasy, Francis Kent, Gibson Girl, Golden
Gleam, Indian Nation, Mahan Gold, Maytime,
Persian Pattern, Quechee, Rose Splendor,
Sky Above, So Sweet, Technicolor.

Following Irises, \$3.50 per 10.

Black Castle, Black Mischief, Cascadian,
Castle Rock, Edin Tracey, Illustrous, Mor
Majesty, Pink Confection, Sparkle, The Mad
Hatter, Twenty Grand.

Following Irises, \$5.00 per 10.

Canyon Skies, Chinese White, Clara B,
Diane, Dreamy, Irish Charm, Memphis
Belle, Memories, Real Gold, Solid Gold, Sum-
mer Song, White Prairie, Whispers, Wonder-
bar, Yellow Organdy.

Not less than 5 at the 10 rate. Free whole-
sale price list.

SMITH'S IRIS GARDENS

Box 483 Lewiston, Idaho

TALL BEARDED IRISES

Berkeley Gold, Blue Rhythm, Grand Can-
yon, Los Angeles, Red Dominion, Wabash,
\$1.50 per 10, \$12.00 per 100, Desert Song, El-
mohr, H. McGregor, Inspiration, Lady Bos-
wen, Lady Mohr, New Snow, Ola Kala, Pink
Cameo, Rocket, Sable, Red Douglas, \$2.00
per 10, \$15.00 per 100, Cascade Splendor,
Casa Morena, Extravaganza, Jane Phillips,
Gold Sovereign, Pinnacle, \$2.50 per 10, \$20.00
per 100, 5 at 10 rate; 25 at 100 rate. Send
for complete list.

HURLEY NURSERY, PAINESVILLE, O.

IRISES FOR LANDSCAPING

In separate colors of red, pink, white, yel-
low, bronze, blue, lavender, purple and
palest. \$10.00 per 100. Not less than 10 of
a color. Mixed colors, \$8.50 per 100. Fine
selection. Selected while blooming for these
offers.

Wholesale list free.

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BALTIC IVY.

Hardest Ivy. Fine for wall or ground

cover. True stock. Well-rooted plants.

Rooted cuttings \$ 7.00 \$ 65.00

2-in. pots 12.50 115.00

NEW THORNDALE IVY.

2 1/2-in. pots \$25.00 per 100

Euonymus kewensis, 2-in. pots, 20.00 per 100

EUONYMUS VEGETUS

2-in. pots, \$12.00 per 100, \$110.00 per 1000.

2-yr., field-grown, \$35.00 per 100.

STRATFORD GARDENS

Russell Breece, M. R. 9 Delaware, O.

BALTIC IVY

Per 100 Per 1000

2-in. pots \$12.50 \$115.00

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216 Park Ave. Oil City, Pa.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

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EVERGREENS

Pfitzer Juniper, 6 to 10 ins., 2-yr., bare-

root \$0.07

Pfitzer Juniper, plant bands16

Von Ehron Juniper, 6 to 10 ins., bare-

root06

Less than 200 total order, 2c more per

plant. Less than 50 of any item, 4c more

McINCH GREENHOUSES

St. Joseph, Mo.

LINERS OF THE BETTER KINDS

Write for price list.

GULF STREAM NURSERY, INC.

Wachapreague, Va.

LINING-OUT STOCK

Bedded 1-yr. in the open. 100 1000

Ilex convexa \$20.00 \$150.00

Ilex rotundifolia 20.00 180.00

Ilex hetzi 20.00 180.00

Juniperus pfitzeriana 20.00 180.00

Juniperus hetzi 20.00 180.00

Taxus andersonii 20.00 175.00

Taxus brevifolia 20.00 175.00

Taxus capitata, cutting-grown, 25.00 225.00

Taxus capitata Adams, 25.00 225.00

Taxus canadensis stricta 16.00 150.00

Taxus cuspidata 17.50 150.00

Taxus hatfieldii 17.50 150.00

Taxus hunnewelliana 17.50 150.00

Taxus hicksii 17.50 150.00

Taxus intermedia 17.50 150.00

Taxus henryi 20.00 175.00

Taxus densiformis 20.00 175.00

Taxus vermiculata 17.50 150.00

Taxus wardii 17.50 150.00

Taxus Moon's columnaris 20.00 175.00

Taxus brownii 17.50 150.00

2-yr. bedded in the open.

Ilex convexa, 6 to 9 ins. \$25.00 \$200.00

Ilex rotundifolia, 6 to 9 ins. 25.00 200.00

Ilex hetzi, 6 to 9 ins. 25.00 200.00

Taxus Adams col., 12 to 15 ins. 50.00 450.00

Taxus Moon's col., 8 to 12 ins. 30.00 250.00

Taxus cuspidata, 6 to 9 ins. 30.00 250.00

Taxus hatfieldii, 6 to 9 ins. 30.00 250.00

Taxus cuspidata comp., 30.00 250.00

8 to 9 ins. 30.00 250.00

Taxus hunnewelliana, 6 to 9 ins. 30.00 250.00

Taxus brownii, 6 to 9 ins. 30.00 250.00

Taxus intermedia, 6 to 9 ins. 30.00 250.00

TAXUS CAPITATA, SEEDLING-GROWN

100 1000

1-yr. seedlings \$ 6.00 \$ 50.00 \$ 450.00

2-yr. seedlings 10.00 90.00 750.00

3-yr. seedlings 17.50 150.00 1250.00

4-yr. seedlings, trans-

planted, 6 to 10 ins. 30.00 250.00 2250.00

CORNUS FLORIDA (WHITE DOGWOOD)

Seedlings 100 1000 10,000

1-yr., No. 1 grade \$ 6.00 \$ 50.00 \$ 450.00

1-yr., No. 2 grade 5.00 40.00 350.00

1-yr., No. 3 grade 4.00 30.00 250.00

2-yr., No. 1 grade 12.50 100.00 900.00

2-yr., No. 2 grade 10.00 90.00 750.00

Special prices on large quantities.

Full list on demand.

VERKADE'S NURSERIES, WAYNE, N. J.

POT-GROWN GRAFTS

All our understocks are potted up during
the spring, grown in frames in pots all sum-
mer and grafted the following winter, ensur-
ing the best root system to be grown and

assures minimum losses.

Per 100

*Acer palmatum atropurpureum \$ 75.00

*Carpinus betulus fastigiata 60.00

Cedrus atlantica aurea 100.00

Cedrus atlantica glauca 75.00

*Cornus florida rubra 50.00

*Cornus florida rubra Prosser 50.00

*Cornus florida pendula 60.00

*Cornus florida flore-plena 60.00

*Cornus florida welchii var. 65.00

*Cornus kousa chinensis 60.00

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*Hamamelis mollis 50.00

*Hamamelis brevifolia 100.00

Fagus sylvatica Tricolor 75.00

*Fagus sylvatica riversii 60.00

*Fagus sylvatica pendula 60.00

*Fagus sylvatica heterophylla 60.00

*Fagus sylvatica fastigiata 60.00

*Magnolia stellata 75.00

*Magnolia stellata rubra 75.00

*Magnolia stellata Waterlily 75.00

Magnolia yulan 75.00

Magnolia cordata (yellow) 75.00

Picea pung. glauca moerheimii 100.00

Pinus cembra 60.00

Pinus Janszoo 60.00

*Viburnum carlesii 50.00

Viburnum juddii 50.00

LINING-OUT STOCK—Continued

LINING-OUT STOCK		
	Per 100	Per 1000
GINKGO BILOBA		
1-yr., 4 to 6 ins.	\$12.00	\$ 90.00
2-yr., 6 to 8 ins.	14.00	110.00
2-yr., 8 to 12 ins.	18.00	160.00
FRAXINUS ORNUS (Flowering Ash)		
2-yr., 12 to 15 ins.	16.00	140.00
2-yr., 18 to 24 ins.	19.00	170.00
ACER PLATANUS		
1-yr., 6 to 8 ins.	6.00	50.00
ACER PSEUDOPLATANUS Atropurpureum		
2-yr., 18 to 24 ins.	15.00	135.00
ACER NEGUNDO		
2-yr., 2 to 3 ft.	10.00	85.00

Send for our price list describing many rare and ornamental trees.

GIRARD BROS. NURSERIES

Geneva, O.

ROOTED CUTTINGS

	Each
Herberis Julianae	10c
Cryptomeria japonica	8c
Hex bullata	6c
Hex crenata	6c
Hex microphylla	6c
Hex rotundifolia	6c
Juniperus hetzi glauca	8c
Retinispora obtusa nana comp.	8c
Taxus cuspidata	9c
Taxus E. No. 1	9c
Taxus hatfieldi	9c
Taxus, Jeffrey's	9c
Taxus kelseyi	9c
Taxus T-21	9c

Immediate delivery and packing free.
ESHAM'S NURSERIES
Millboro, Del.

LINING-OUT STOCK

	Per 100	Per 500
Taxus, henryi, 2-yr., T.	\$27.00	\$25.00
densiformis, 2-yr., T.	27.00	25.00
thayerae, 2-yr., T.	27.00	25.00
hicksi, 2-yr., T.	27.00	25.00
hatfieldi, 2-yr., T.	27.00	25.00
Halloran, 2-yr., T.	27.00	25.00
Andromeda, 2-yr., T.	25.00	20.00
Andromeda, 3-yr., T.	45.00	40.00

Write us for prices on quantities of 5000 or more.

SOWAMS NURSERY
82 Sowams Rd. Barrington, R. I.

LIRIOPE

LIRIOPE

The foolproof border plant, grows anywhere, shade or sun. Hardy to N. Y. Can plant any time. Send for list of thirteen varieties, seven new ones just out.
RIEGL PLANT CO., EXPERIMENT, GA.

MAGNOLIAS

Magnolia grandiflora, 4 to 8 ins., shipped in pots, 2 1/2-in. or removed, \$15.00 per 100. 1-yr. seedlings for spring 1953, about 4 ins. high, \$50.00 per 1000. Cash and no charge for packing.
Harwell Nursery, Van Buren, Ark.

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NORWAY MAPLE

Straight trunks. Fine heads. Very fibrous roots.

	10-49	50-250
6 to 8 ft.	\$3.00	\$2.50
8 to 10 ft., 1 to 1 1/4-in.	4.05	3.25
9 to 11 ft., 1 1/4 to 1 1/2-in.	5.30	4.25
10 to 12 ft., 1 1/2 to 1 3/4-in.	7.00	5.50
11 to 13 ft., 1 3/4 to 2-in.	8.00	6.50

PRINCETON NURSERIES
Princeton, N. J.

COLLECTED ACER
RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

Acers, saccharum and rubrum, root-pruned, field specimens, 2-in. to 12-in. caliper.
R. H. Rogers Nursery, Cooperstown, N. Y.

PACHYSANDRAS

PACHYSANDRA TERMINALIS

	Per 100	Per 1000
1-yr., field-grown	\$ 5.00	\$ 45.00
(Lots of 5000, \$40.00 per 1000)		
2-yr., field-grown	7.50	70.00
Free packing. Phone MOhawk 4-2923.		

HANSEN BROS. NURSERIES, INC.
1268 Montgomery Ave. Narberth, Pa.

PACHYSANDRAS
1-yr.-old, large frame plants.
Satisfaction guaranteed.
Large quantity.
\$5.50 per 100, \$43.00 per 1000.
\$40.00 per 5000.

BRUNDAGE & GUTHRIE
123 Franklin St. Tarrytown, N. Y.

PACHYSANDRAS
Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.

DUNWOODIE NURSERIES

6 Smart Ave. Yonkers, N. Y.
Pachysandras, strong plants, grown in soil frames with light shade. First-class stock, \$5.00 per 100, \$50.00 per 1000; \$47.50 per 1000 for 5000 or more, including good packing. Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRA TERMINALIS
1-yr., field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES
Miller Park Franklin, Pa.

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PEONIES

Adolph Rousseau, Baroness Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex. Duff, Marie Lemoine, Mona Jules Elie, Reine Hortense.
3-yr.-old whole clumps, not divided, 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000.
VERKADE'S NURSERIES, WAYNE, N. J.

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ANDROMEDA (PIERIS JAPONICA)

Per 100 Per 1000
6 to 8-in., 2-yr., TT. \$20.00 \$190.00
PLANE VIEW NURSERY
1355 W. Main Rd. Newport, R. I.

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Thousands of Amur River North Privet.
Per 100 Per 1000
18 to 24 ins. \$4.00 \$25.00
2 to 3 ft. 4.00 30.00
3 to 4 ft. 5.00 40.00
Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

RHODODENDRONS

FIFTY THOUSAND

OWN-ROOT

RHODODENDRONS

A wide range of hardy varieties in 1, 2 and 3-yr. plants. Come and see for yourself to compare quality and prices, or just come and talk Rhododendrons. If you prefer,

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P. O. Box 141 Red Bank, N. J.
Phone SHadyside 1-0180

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Landscape sizes.

Different colors.

PARMENTIER'S ROSES
Grady St. Bayport, L. I., N. Y.
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RHODODENDRON MAXIMUM
Nursery-grown and collected, 2 to 7 ft. high. Well-shaped and symmetrical plants.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

ROSEBUSHES

FIELD-GROWN ROSEBUSHES

FINEST QUALITY.

Hybrid Teas, floribundas,

polyanthas and climbers.

Price and variety list on request.

WELLS BROS. NURSERY
Box 625 Lindale, Tex.
Phone 12F4W

For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the August 1 issue to reach us July 10.

Forms for the August 15 issue will close July 24.

AMERICAN NURSERYMAN
343 S. Dearborn St. CHICAGO 4, ILL.

ROSE STOCK

MULTIFLORA ROSE

Top quality plants for living fences and conservation plantings.

Root-crown caliper	Approximate height	Per 1000
2 to 3 mm.	8 to 15 ins.	\$12.50
3 to 5 mm.	12 to 18 ins.	17.50
5 to 8 mm.	12 to 24 ins.	22.50
8 to 12 mm.	18 to 36 ins.	35.00

UNDERSTOCK. Straight shanked seedlings grown especially for understock. Nemato-free. Expertly graded to suit the most particular.

4 to 6 mm. \$27.50 per 1000

2 to 4 mm. 17.50 per 1000

The above prices are F.O.B. Griggsville, Ill., nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for delivery this spring. 10 per cent discount on larger quantities. For less than 1000 add 30 per cent. Packing at cost.

FARM LANDSCAPE CO.

Route 3 Urbana, Ill.

SEEDS

NANDINA SEED

Orders booked for fall delivery at time of maturity, \$1.00 per lb. F.O.B. Minimum order 3 lbs. Cash with order, please or prior to shipment.

ANDREWS' NURSERY

P. O. Box 442 Chapel Hill, N. C.

NANDINA DOMESTICA SEED

This year's crop of dry, fertile seed, picked from our fields of beautiful red berrying plants, \$2.00 per lb. Add 20c per lb. for postage.

TERMS: CASH.

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Parrott, Ga.

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BROAD-LEAVED EVERGREENS

Don't settle for anything but the best. Our broad-leaves never looked better. Order now for fall 1953 and spring 1954. Good plants don't last long.

Pieris japonica, 18-in. bed to 3 1/2 ft. field.
Pieris floribunda, 10 to 18-in. bed to 2 1/2 ft. field.

Azalea mollis, 15-in. bed to 2 1/2 ft. field.

Azalea japonica, 15 to 24-in.

Azalea mucronulata, 2 1/2 to 4 ft.

Azalea schlippenbachii, 15-in. bed to 2 1/2 ft. field.

Enkianthus, 18-in. bed to 3 ft. field.

Rhododendron, hybrid; seedlings, 12 ins. to 2 1/2 ft.

Rhododendron carolinianum, 15 to 24-in. to 4 ft. field.

Rhododendron catawbiense compactum, 15 to 24-in.

Rhododendron catawbiense, 2 1/2 to 3 1/2 ft.

Write for list. Nursery invited.

HINDLA'S NURSERY

Locust Ave. Bohemia, L. I., N. Y.

ORNAMENTAL TREES

Crab Apples, 40 varieties; 1-yr. trees and limited number 4-yr. transplants. Descriptive booklet available.

Thunder Cloud Plum, purple-leaved; 1-yr. and 4-yr., 8 ft. up.

Winter King Hawthorn, fruits ornamental all winter; 1-yr. whips.

American Holly, hardy named varieties, in sizes to 6 ft.

Taxus and large plants of Magnolia soulangiana.

SIMPSON ORCHARD CO., INC.

1504 Wheatland Rd. Vincennes, Ind.

Phone 489-3

POT-GROWN GRAFTS

	Per 100
Acer palmatum atropurpureum	\$65.00
Cornus florida rubra	55.00
Fagus sylvatica asplenifolia	55.00
Fagus sylvatica riveria	55.00
Pinus cembra	55.00
Tsuga sargentii	55.00

1-YR., TRANSPLANTED IN PLANTS

	Per 100	Per 1000
Azalea Hino-Crimson	\$12.00	\$100.00
Azalea hinoxigiri	12.00	100.00
Pieris japonica	12.00	100.00

VAN DINE NURSERY

287 Berdan Ave. Wayne, N. J.

RHODODENDRONS AND AZALEAS

Rooted cuttings and liners.

Propagators.

GLADSGAY GARDENS NURSERY

6311 Three Chopt Rd.

Richmond 26, Va.

RARE SHADE TREE LINERS

Increase your sales with our quality flowering, shade, shrubs, fruit tree liners. Reasonable prices. Send want list.

GLOBE NURSERIES

Box 249 McMinnville, Tenn.

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NURSERY STOCK
TAXUS, RHODODENDRONS, JAPANESE MAPLE, AZALEAS, HOLLIES, MAGNOLIAS, DOGWOODS and other choice foundation planting stock in both finished and lining-out grades. Catalog upon request. Buy the best. "BUY KLYN'S."
GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen
IN THE HEART OF FAMOUS LAKE CO.

Quercus rubra (Red Oak), root-pruned, field specimens, 2 to 3-in. caliper.
R. H. Rogers Nursery, Cooperstown, N. Y.

Turn your Surplus Stock into cash with a Classified Ad in the American Nurseryman.

TAXUS

TAXUS, HEAVY ROOTED CUTTINGS
Each, 100 1000
Brown, 8 to 10 ins. \$8.50 \$80.00
Duswell, 8 to 10 ins. 8.50 80.00
Intermedia (Sebian), 8 to 10 ins. 8.50 80.00
Intermedia, 8 to 10 ins. 8.50 80.00
KUNDITZ GREENHOUSE & NURSERY
2677 W. Jackson St. Painesville, O.

Surplus Stock can be easily and quickly turned into Cash by listing it in the American Nurseryman Classified Ads.

MISCELLANEOUS

MISCELLANEOUS STOCK 1000
Privet Amur River North, 3 to 4 ft. \$40.00
Kudzu vine 60.00
Multiflora Rose, 1-yr., thorny 35.00
Yuccas, 2-yr.-old clumps 25.00
Ferns, Boston and Bracken, large clumps 60.00
Weeping Willow, 2-yr.-old, real weepers 60.00
Vince minor, big clumps 50.00
IVY DALE NURSERY
Upper River Rd. Gallipolis, O.

SUPPLIES

BURLAP

HOLLAND BURLAP squares, for all needs. VIKING CLOTH, a film imbedded Burlap, in squares, used instead of tarpaulins, and in 54-yard rolls, 5 ft. wide, \$38.00.
HALF MOON CO., Box 27A, Plainfield, N. J.
Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

CANE STAKES

LIGHTNING SERVICE ON FRESHLY IMPORTED JAPANESE BAMBOO CANE STAKES
NEW YORK, CHICAGO, PORTLAND, ORE.
Write for our competitive prices and generous quantity discounts.
McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.
2595 S. E. 11th Ave. Portland 2, Ore.

BAMBOO CANE STAKES

For greenhouse and nursery purposes. All types and sizes.
Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1213 W. Randolph St. Chicago 7, Ill.
OUTDOOR BAMBOO STAKES
All sizes for immediate delivery. Ask for our Nursery Supply List.
HALF MOON CO., Box 27A, Plainfield, N. J.

Classified Ads Offer Maximum Results at Minimum Cost.

COLOR TAGS

COLOR PICTURE TAGS
Quick shipments. Reasonably priced. Shrubs, shade, fruits, vines, flowering trees, etc. Write for price list.
GLOBE NURSERIES
Box 249 McMinnville, Tenn.
Small Ads Do Great Things in the American Nurseryman Classified Section.

CONTAINERS

KNOCKED-DOWN CANS APOLOGIZES
We have been unable to produce our quality cans at a price you are willing to pay. This problem will be solved. We thank our many friends for their inquiries and will not forget you. Give us time to work out a solution.
BENSON & WEDDING
Knocked-Down Cans
16720 Ayre Ave. Tinley Park, Ill.

WANTED

WANTED
Quotations on any of the following amounts of landscaping material for fall planting.
R&B STOCK UNLESS NOTED

- 8 Acer rubrum (Red Maple), 2 to 2½-in. cal.
- 14 Acer rubrum, 2½ to 3-in. cal.
- 62 Acer rubrum, 3 to 3½-in. cal.
- 4 Acer rubrum (Red Maple), 5 to 6-in. cal.
- 11 Acer saccharum (Sugar), 3 to 4-in. cal.
- 6 Acer saccharum (Sugar), 6 to 7-in. cal.
- 11 Amelanchier canadensis, 5 to 6-ft. height.
- 8 Crataegus crusgalli, 5 to 6-ft. height.
- 18 Malus, in variety, 6 to 8-ft. height.
- 9 Pinus strobus (White Pine), 6 to 8-ft. height.
- 6 Pinus strobus, 8 to 10-ft. height.
- 10 Pinus strobus, 12 to 14-ft. height.
- 7 Pinus strobus, 20 to 22-ft. height.
- 73 Platanus acerifolia, 2½ to 3-in. cal.
- 19 Populus alba boleana, bare-root, 1½ to 2-in. cal.
- 109 Quercus palustris, 3 to 3½-in. cal.
- 11 Quercus, in variety, 2 to 2½-in. cal.
- 6 Quercus, in variety, 3 to 3½-in. cal.
- 40 Salix alba, bare-root, 1½ to 1¾-in. cal.
- 310 Ligustrum regelianum, 2 to 2½-ft. height.
- Scotch or Red Pine, any Spruce or Fir:
 - 2 6 to 8 ft.
 - 6 8 to 10 ft.
 - 10 12 to 14 ft.
 - 7 20 to 22 ft.

NIAGARA TREE EXPERTS & LANDSCAPING SERVICE
8701 Buffalo Ave. Niagara Falls, N. Y.

WANTED

SURPLUS NURSERY STOCK
for distribution to chain store accounts in the East and Midwest. Send us your list of surplus stock with price listings for volume shipments. Call us for immediate action.
ARTHUR GAKLIS
181 South Ave. Weston 93, Mass.
Phone TWInbrook 4-5474
Turn Stock into Dollars by Listing It in the Classified Ads of the American Nurseryman

FERTILIZERS

PETERS SPECIAL CONTAINER-GROWING FERTILIZERS
All materials listed are ideal for container-growing purposes.

SEQUESTERED SOLUBLE CHELATED FERTILIZERS WITH 3477

SOLUBLE FERTILIZERS
21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
20-10-15 Nurserymen's Special.
All above, \$6.75 per 25-lb. bag.
\$23.00 for 4 25-lb. bags.
20-20-20 General Purpose Feed.
10-20-20 Low Nitrogen Special.
\$7.25 per 25-lb. bag; \$25.00 for 4 25-lb. bags.

LONG-LIFE FEEDS
13-6-6 Organic Special Du Pont Uramite Nitrogen and highest grade natural organic. The finest long-life feed. Unexcelled for containers.
\$7.75 per 25-lb. bag; \$29.00 for 4 25-lb. bags.
Du Pont Uramite, 33 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.
Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.

FRITTED POTASH
Contains 32 per cent K2O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months' assured supply of Potash, regardless of leaching rain or heavy watering. \$9.00 per 25-lb. bag; \$36.00 per 25-lb. bag for 4 to 39 bags.

Write for complete price list. Freight prepaid to any state in the Union with the exception of Alaska, on all orders totaling 300 lbs. or more. West of the Mississippi, add 2c per lb. on 300 lbs. and over, prepaid shipments. F.O.B. Allentown, Pa., on all orders less than 300 lbs.

PETERS SPECIAL RETAIL PACKAGES
20-20-20.
1-lb. resale container, packed 12 to a carton.
Resale price, \$1.25 to \$1.50.
12-pack carton costs you \$10.50.

20-20-20.
5-lb. resale tub, packed 6 to a carton.
Resale price, \$3.75 to \$4.95.
6-pack carton costs you \$15.75.
F.O.B. Allentown, Pa. Total orders of 300 lbs. or over shipped prepaid anywhere in the United States, with the exception of Alaska.

ROBERT B. PETERS CO., INC.
323 N. 15th St. Allentown, Pa.
More customers for you!
Over 9,500 subscribers, all active buyers. See your ad in the American Nurseryman.

FLATS

WHITE CEDAR FLATS			
Order by No.	Size I.S.M.	Price per 100	Wt. per 100
No. 1.	14x20x2½-in.	\$27.00	320
No. 2.	14x20x3-in.	31.50	400
No. 3.	12x16x2-in.	20.75	260
No. 4.	12x16x3-in.	24.50	275
No. 5.	14x16x2-in.	22.25	275
No. 6.	14x16x3-in.	27.50	290
No. 7.	15x22x2½-in.	30.75	380
No. 8.	15x22x3-in.	35.50	425
No. 9.	11¼x22x2½-in.	25.00	320
No. 10.	11¼x22x3-in.	29.00	400
No. 11.	14x16x5-in.	32.75	450
No. 12.	5x11x5-in.	16.75	160
No. 13.	5x16x5-in.	19.00	215
Plant boxes, 5x8½x2-in.		1.50	45

Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.
5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.

Bottoms and sides are ¼-in. thick and ends are ¼-in. thick. All material surfaced on one side.

Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus ¼c per end piece for the first 1000 ends; 10¢ per end thereafter.

Shipped knocked-down in units of 25. F.O.B. Cook. All shipments by truck unless otherwise specified. Attach check.
H. C. HILL & SONS
Manufacturer of flats, dowels and specialties.
Phone North 6-3346, Cook, Minn.

CYPRESS FLATS.

TOP-GRADE FLATS THAT LAST.			
No.	Size I.S.M.	Per 100	Wt.
1.	14x20x2½-in.	\$25.00	690
2.	14x20x3-in.	29.00	680
3.	12x16x2-in.	20.00	440
4.	12x16x3-in.	24.00	530
5.	14x16x2-in.	22.00	510
6.	14x16x3-in.	26.00	590
7.	15x22x2½-in.	28.00	670
8.	15x22x3-in.	33.00	780
9.	11¼x22x2½-in.	23.00	540
10.	11¼x22x3-in.	28.00	630
11.	14x16x5-in.	30.00	720
12.	5x11x5-in.	16.00	300
13.	5x16x5-in.	18.00	380

Any size to order. Write for price list on skeleton flats. Bottoms and sides ¼-in. thick; ends ¼-in.; all planed one side. 5 per cent discount on orders of 500 or more. Check with order. Up to 3 lines printing in black ink if desired; \$1.00 set up charge plus 1c per end piece. Shipped K.D. in bundles of 25. F.O.B. Williamston, by truck, unless specified otherwise.

H. C. HILL & SONS
P. O. Box 747 Williamston, N. C.
Phone Swift 2-4127

REDWOOD FLATS, K.D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x16x3 ins. inside measure, \$38.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bd.
50 pcs. to bundle, 5 ft., \$4.50 per bd.
50 pcs. to bundle, 6 ft., \$5.50 per bd.
Ship same day. Cash with order, please.
YOH & HOOKER, YOUNGSTOWN 2, O.

IRRIGATION EQUIPMENT

IRRIGATION EQUIPMENT
Buy direct from factory. New or used pumps, aluminum or steel irrigation pipe, fittings, irrigation well service. Moulton Eagle boom sprinkler, 3 sizes. Write for free catalog.

MOULTON IRRIGATION CO.
Dept. AN9 Withrow, Minn.

Start Your Offer Now in the American Nurseryman and Watch Sales Climb.

LABELS

DAHLIA OR TREE LABELS			
		Plain	Painted
3¼x½ ins., notched, not wired.	\$3.00	\$3.50	
3¼x½ ins., wired (copper).	2.95	4.90	
POT LABELS			
4x½ ins. (cartons 1000 each)...	3.95	4.80	
5x½ ins. (cartons 1000 each)...	4.30	5.10	
6x½ ins. (cartons 1000 each)...	4.70	5.80	
GARDEN STAKES			
8x½ ins. (cartons 500 each)...	\$3.60	\$4.50	
10x½ ins. (cartons 500 each)...	4.20	5.10	

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.
Catalog on request.
"We ship same day."

YOH & HOOKER, YOUNGSTOWN 2, O.
FINEST BLANK OR PRINTED wood labels.
BENJ. CHASE CO., VII. Sta., DERRY, N. H.

ORCHID SUPPLIES

ORCHID FERTILIZERS WATER SOLUBLE
Use regularly on all Orchids when in active growth.

ORCHID SPOONIT

Containing .1 chelated iron.
1 lb., \$1.25; 2 1/2 lbs., \$2.50; 10 lbs., \$8.00.
GAVIOTA ORCHID FERTILIZER
Especially compounded for Orchids.

1 lb., \$1.25; 2 1/2 lbs., \$2.50.
3-1-2 ORCHID FERTILIZER
Instantly available organic nitrogen.

1 lb., \$1.00; 3 lbs., \$2.50.
WILSON'S ORCHID 20-20-20 FERTILIZER
2 lbs., \$4.55. For use on all Orchids.

Priced F.O.B.
WRIGHTWOOD FLORAL CO., INC.
1420 Wrightwood Ave. Houston 9, Tex.

PEAT MOSS

"BRODLEAF" Holland Peat Moss. Carlots.
Standard 7 1/2 cft. Gardener 6 cft. and Halves.
Jumbo for growers, two bales equal three.
HALF MOON CO., Box 27A, Plainfield, N. J.

PLANT FOOD

PENNSYLVANIA DISTRIBUTOR
CHLOROMONE

Liquid plant hormone with chlorophyll.
4-oz. jar \$ 3.00
Case of 12 23.40
Case of 24 43.20
Gallon tin 45.00
HEASLEY BROS. NURSERY
R. D. 1, Box 218 Greensburg, Pa.

OHIO DISTRIBUTOR
CHLOROMONE

Liquid plant hormone with chlorophyll.
4-oz. jar \$ 3.00
Case of 12 23.40
Case of 24 43.20
Gallon tin 45.00
CRUMRINE NURSERY
13577 Iowa Ave. N. E. Alliance, O.

CHLOROMONE

Liquid plant hormone.
4-oz. jar \$ 3.00
Case of 12 23.40
Case of 24 43.20
Gallon tins 45.00
HESS' NURSERIES
P. O. Box 128 Wayne, N. J.

PLASTIC FILM

GER-PAK POLYETHYLENE FILM
SUN-RESISTANT BLACK FOR MULCHING
.0015 MIL.

3 ft. x 500 ft. \$ 7.45 roll
3 ft. x 1000 ft. 14.90 roll
4 ft. x 1000 ft. 19.90 roll

NATURAL TRANSPARENT ONLY
.002 MIL. ALL ROLLS 200 FT. LONG

4 ft. x 200 ft. \$ 5.55 roll
8 ft. x 200 ft. 11.10 roll
12 ft. x 200 ft. 15.90 roll

NATURAL TRANSPARENT ONLY
.004 MIL. ALL ROLLS 100 FT. LONG

3 ft. x 100 ft. \$ 4.00 roll
4 ft. x 100 ft. 5.30 roll
6 ft. x 100 ft. 7.98 roll

8 ft. x 100 ft. 10.65 roll
14 ft. x 100 ft. 18.60 roll
MINIMUM ORDER .004 mil. 4 rolls up to

8 ft. Write for low prices on quantity orders. Other sizes and mil. weights available up to 40 ft. in natural and black film.

PHONE BALDWIN 3-8277
DAYTON NURSERY & GARDEN SALES
P. O. Box 763 Dayton 1, O.

POLYETHYLENE FILM

1 1/2 mil., black, in 1000-ft. rolls, 3 ft. wide, \$20.40; 4 ft. wide, \$27.00.
2 mil., natural, in 200-ft. rolls, 4 ft. x 2 in. wide, \$5.00; 3 ft. x 4 in. wide, \$15.00; 12 ft. wide, \$21.60.

4 mil., natural, in 100-ft. rolls, 3 ft. wide, \$6.00; 4 ft. wide, \$8.00; 6 ft. wide, \$11.20; 8 ft. wide, \$14.40; 10 ft. wide, \$18.00; 12 ft. wide, \$21.60; 14 ft. wide, \$25.20; 16 ft. wide, \$28.80; 20 ft. wide, \$36.00; 24 ft. wide, \$43.20; 28 ft. wide, \$50.40; 32 ft. wide, \$57.60.

10 per cent discount on orders over \$24.00.
20 per cent discount on orders over \$60.00.
35 per cent discount on orders over \$50.000 sq. ft.

We pay freight if check is with order.
6 mil. available in widths up to 32 ft.
ROUGH BROS.
1229 Spring Grove Ave. Cincinnati 23, O.

POLYETHYLENE FILM

Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.

.004 mil., all rolls 100 ft. long.
3 ft. wide by 100 ft. long \$ 6.00 per roll
4 ft. wide by 100 ft. long 8.00 per roll
6 ft. wide by 100 ft. long 12.00 per roll
8 ft. wide by 100 ft. long 16.00 per roll

Other sizes available up to 20 ft. wide.
Send \$1.00 for liberal sample.
4 ft. x 10 ft. postpaid.

Special deal for greenhouse construction.
5 rolls or 3 rolls, 25 per cent discount.
100 rolls or more, 33 1/2 per cent discount.

"We ship same day."
YOH & HOOKER
520 Williamson Ave. Youngstown 1, O.

VIKING-CLOTH, a film embedded in Burlap.
POLLY-FILM, all in Sheets and Rolls.
HALF MOON CO., Box 27A, Plainfield, N. J.

PLASTIC POTS

WILSON HIGH IMPACT
POLYSTYRENE PLASTIC POTS

Attractive mottled colors in utility grade, sold in original cartons only. All priced F.O.B. DAYTON, O.

Per 1000 Wt.
2-in., round, 1000 case \$ 8.50 12 lbs.
2 1/2-in., round, 1000 case 11.50 22 lbs.
3-in., round, 1000 case 17.00 35 lbs.
4-in., round, 500 case 32.00 35 lbs.
4-in., round tub, 500 case 32.00 33 lbs.
6-in., round, 120 case 120.00 35 lbs.
6-in., round tub, 120 case 105.00 25 lbs.
2 1/4-in., square, 1000 case 10.00 18 lbs.
3-in., square, 1000 case 17.00 36 lbs.
4-in., square, 1000 case 32.00 33 lbs.
Also available in solid pastel colors, add 20 per cent to above price for colors. Samples sent upon request.

DAYTON NURSERY & GARDEN SALES
P. O. Box 763, Dayton 1, O.
Phone Baldwin 3-8277

INCREASE PROFITS

Cut costs, reduce breakage, improve salability! How? Simply use Wilson Plastic Plant Pots. Square and round pots, tubs and flats. Wide range of sizes. Lightweight, durable, low cost. High impact material makes pots unbreakable in normal use. Switch now to modern, money-saving Wilson Plastic Plant Pots. For free samples, write to WILSON PLASTICS, INC., Dept. AN., P. O. Box 2037 Sandusky, O.

PRINTING

Billheads, 8 1/2 x 7.
White wove envelopes, 6 1/2 size.
250 of each for \$6.00, postpaid to zone 3.
H. Grebe, 306 Union St., Royersford, Pa.

SPHAGNUM MOSS

NO. 1 SPHAGNUM MOSS

Large burlap bales, long fibered, clean, firmly packed; bale, \$1.25.

JOSEPH JAMROS, CITY POINT, WIS.
Fresh, clean sphagnum moss, write, or phone City Point 133 for our low prices on wirebound bales in truckloads or carlots.
Tony Jaromir, City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.
Warrens Moss Co., Warrens, Wis.

STAKES

CYPRESS PLANT STAKES

50 pieces to bundle.
1x1-in.-3 ft., pointed \$3.00 per bundle
1x1-in.-4 ft., pointed 3.50 per bundle
1x1-in.-5 ft., pointed 4.50 per bundle
1x1-in.-6 ft., pointed 5.50 per bundle
1x1-in.-7 ft., pointed 7.00 per bundle
These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOH & HOOKER

Youngstown 2, O.

STAKES, GALVANIZED HARD STEEL

GALVANIZED tree guying WIRE,

HOSE for guypwire PADDING.

Prices and samples sent on request.

SCHUPP SUPPLY CO., WILMETTE, ILL.

TRADE BOOKS

TRADE BOOKS.

Descriptive book circulars available on request.

STANDARD CYCLOPEDIA

OF HORTICULTURE.

3-Volume Set.

by L. H. Bailey, \$52.00.

GREENHOUSE HEATING AND

CONSTRUCTION.

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by Norman Taylor, \$7.50.

MANUAL OF CULTIVATED TREES AND

SHRUBS.

by Alfred Rehder, \$13.00.

GROUNDS MAINTENANCE HANDBOOK.

by H. S. Conover, \$10.75.

THE GRAFTER'S HANDBOOK.

by R. J. Garner, \$5.75.

These books may be obtained, postpaid, at the publishers' prices indicated, from

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

Flower and Garden
Show at Omaha

Serenity and beauty keyed the \$50,000 display of flowers, gardens and landscaping at the midwest flower and garden show in the Civic Auditorium, Omaha, Neb., June 11 to 14. The first major undertaking of its kind in the vicinity for 23 years, the event was sponsored by the local Lions Club, with the proceeds going to charities. An attendance topping 17,000 assured the show officials of the exhibition's becoming an annual event.

Marshall Nurseries, Omaha, and the Earl May Seed & Nursery Co. and the Mount Arbor Nurseries, Shenandoah, cooperatively produced the show. Eleven Omaha and Council Bluffs flower shops, 20 allied firms and local garden clubs participated in the exhibition.

A large cut stone outlined garden, designed by landscape artist William Farrington, Marshall Nurseries, centered the main arena of the auditorium. This garden, landscaped in a succession of vistas, stretched almost to the entrance. Any individual part, however, could be duplicated in a modest backyard.

Plants and shrubbery bordered the 2,200 square foot brick patio, which was illuminated by outdoor decorative gas lamps. Built into the area was a garden house, with brass and glass patio furnishings. A redwood garden bench, surrounded by flower beds, faced the house from across the patio. Antique sculpture was used throughout. Dotting the landscape were 20 to 30-foot trees. Low stone walls edged beds of garden flowers and shrubbery.

Garden Wedding Scene

Florists and nurserymen cooperated in producing a June garden wedding scene. Manikins in formal wedding attire stood beneath a redwood sun shelter in a rock garden setting, circled by plants, trees and shrubbery.

A gravel path with steppingstones led to a brook with blue-tinted water, which formed a background for the wedding scene. The pond was used, also, as a wishing pool for tossed coin contributions to the Nebraska eye bank. To balance the setting, another pond lay at one side of the sun shelter, and a Douglas fir jutted above and behind it.

The concourse around the arena served as exhibit space for garden clubs. Among them were groups specializing in roses, iris and African

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violets; in botany, and in floral art.

Near the main entrance an antique statuary fountain centered a floribunda rose display.

As a salute to Omaha, Mayor Terry Schruk of Portland, Ore., sent a special flower, the Oregon Centennial rose. After the show, the rose was planted in Omaha's Memorial park.

Director and assistant director for the show were Roy Highfield and Edward L. Collins. William Farrington served as coordinator.

Visitors were requested to vote on their choice for a national flower, and the rose won by a unanimous decision.

Concluding the show, a presentation was made to the city of Omaha of the entire stock of shrubs and flowers for the price of 1 cent. The three nurseries and Lions Club president, Robert McGranahan, presented a deed for the exhibit as a repayment for the "wonderful cooperation the citizens had given the show." The stock was to be transplanted in city parks and traffic islands.

CONVENTION CITY

[Continued from page 9]

brought renown to the city, which also has a fine Lyric opera company and a chamber music group, as winter attractions. Famous also are its summer outdoor concerts at Robin Hood Dell, in Fairmount Park.

Franklin Institute and the Fels planetarium are internationally known for their marvels in the scientific field and are on the juniors' visiting list. The Atwater Kent Museum traces in exhibits the 300-year history of the city. There are also a hospital health museum and a philatelic museum.

Sports Popular

Sports-minded persons have undoubtedly known the records of the Phillies, National league baseball team; the Eagles, in football; the Warriors, in basketball, and the Ramblers, in ice hockey. The city is also the home of the Penn relays. Connie Mack stadium, home of the Phillies, is at 21st and Lehigh avenue. The Philadelphia Municipal Stadium is the site of the big Army-Navy football classic.

For a panorama of the city, one can take a trip to the top of City Hall's famous tower, tallest in Philadelphia, where one can view the busy port area, picturesque Fairmount park and various suburbs, from a height exceeding 500 feet.

Convention Hall, 34th street and Convention avenue, holds many conventions, professional sports events

AQUA-GRO®

NON-IONIC ORGANIC SOIL WETTING AGENT



"A problem to us all is the thorough wetting of canned and balled stock. By using AQUA-GRO, I keep my stock uniformly moist and ready for transplanting without loss or drying out. I find the plants have greater resistance to wilt during extended dry spells. I water in one-third less time and use less water. Rewetting of the canned or balled stock is immediate and the response to watering or rainfall is quicker. I have reduced transplanting shock significantly and the lowering of the soil tensions makes the water and nutrients more available to the roots, which shows in the general health of my plants. I feel AQUA-GRO deserves real consideration by anyone interested in the more economical use of water and time in landscape and nursery maintenance."—STAN LEIGHTON, Whitmarsh Nurseries, Plymouth Meeting, Pa.

AQUA-GRO®—Non-Ionic Organic Soil Wetting Agent
AQUATROLS CORPORATION OF AMERICA, 730 Lancaster Ave., Bryn Mawr, Pa.

PATENTED WATER BUBBLER



Generous Discount
Write for Literature

- Screw this durable aluminum head on hose
- PLACE IT—LEAVE IT
- Waters fast—deep
- No wash—No waste

THE TURFGRASS FARM
4001 E. 22nd St., Tucson, Ariz.

FLORISTS' TEXTILES PLASTICS

X. S. SMITH, INC.

Box 272

Red Bank, N. J.

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.50 per inch, each insertion.

Lines: 40¢ line; minimum order \$4.00.

HELP WANTED

AN UNUSUAL SALES OPPORTUNITY

We need 3 single men to begin training for traveling positions selling nursery stock wholesale. Salary while training \$350 per month. If chosen for sales territories, earnings of \$1000 per month or more are possible.

YOUR IMMEDIATE ATTENTION IS NECESSARY.

Write Box 608, American Nurseryman, 343 S. Dearborn, Chicago 4, Ill.

HELP WANTED

1. **LANDSCAPE FOREMAN** — willing worker, thorough knowledge of landscape field essential. Minimum of 5 years' experience required. Permanent position for responsible man.

2. **EXPERIENCED WORKING MANAGER** — for retail garden center and nursery salesyard. Must be reliable and have selling ability. Thorough knowledge of the nursery business essential. Permanent position for responsible man.

SUBURBAN NURSERY
610 Hempstead Turnpike
West Hempstead, L. I., N. Y.

HELP WANTED

SALES POSITION OPEN

Medium-size midwestern grower-nurseryman has opening for wholesale salesman. Old, established firm growing a full line of ornamentals. Now concentrating on Great Lakes area, but need more coverage. Salary plus bonuses—no commissions. Send resume to Box 523, care of American Nurseryman.

HELP WANTED

LANDSCAPE AND NURSERY SALESMAN

Large prominent Philadelphia concern has opening for experienced man. Highly profitable permanent position. Opportunities unlimited. State full qualifications. Write Box 614, care of American Nurseryman.

HELP WANTED

REPRESENTATIVES

To call on variety, drug and supermarket chains west of the Mississippi with complete line of top-notch horticultural line of packaged plants and bulbs. Replies confidential.

NURSERYMEN'S EXCHANGE
475 Sixth St. San Francisco, Calif.

HELP WANTED

Landscape salesman with landscape design experience. \$400 per month drawing account against liberal commission.

OLD ORCHARD GARDENS
724 E. Big Bend Blvd.
Webster Groves, Mo.

SITUATION WANTED

28-year-old university graduate with family is interested in a position with established concern. Army veteran. 2 years' work for landscape architect in planting and maintenance. 3 years' operating complete landscape service and nursery. Capable of handling all large machinery used in landscape construction. Familiar with most plant material. Have good knowledge of designing. Will consider any location. Will give detailed information. Send reply to:

L. E. POPE
1005 Clinkscales Columbia, Mo.

HELP WANTED

SALES POSITION

Attractive proposition for man to call on nursery and greenhouse trade in states of Georgia, Alabama, Florida, etc., selling our complete lines of supplies. Liberal commissions. Exclusive territory. Write giving age, experience, etc. to:

**DAYTON NURSERY &
GARDEN SALES**
P. O. Box 763 Dayton 1, Ohio

FOR SALE

Clear, complete nursery, enormous stock. On 4-lane highway, in fastest-growing area in the northwest. Sell or trade for clear, good going income property farm-ranch. This is a money-maker. Greenhouses, warehouses, modern house and office. Unlimited amount of water, cheapest electricity in U.S.A. All property zoned for business. Value to \$100,000. Will carry back at 4 per cent. Property suitable for any business. Reply to Box 616, care of American Nurseryman.

HELP WANTED

We have an opening immediately for a man to manage our production department. A man with good habits, good recommendations and desiring a permanent position is the one we are looking for. For further details write:

LITTLEFORD NURSERIES
Vincennes, Ind.

HELP WANTED

RETAIL NURSERY SALES CAREER
Requirements—Ambition and desire to work for advancement in a growing, progressive company.

Mr. Charles Crum
ROSEDALE'S NURSERIES, INC.
400 W. Huntington Dr. Monrovia, Calif.

WANTED

Man as partner for large prominent landscape and nursery company in Philadelphia. Man of highest qualifications and proven record can share in highly profitable business. No capital required, only mental ability. Send complete resume. Write Box 615, care of American Nurseryman.

FOR LEASE

Greenhouse and brick workroom, also showroom. Land faces 300-ft. Asheville, Black Mountain Highway. Write: Box 955, Black Mountain, N. C.

FOR SALE

NURSERY

One of the oldest retail nurseries in the country, now in its 96th year of continuous operation. Owner wishes to retire.

100 acres of land, well stocked with evergreens, shrubs, fruit trees, shade and ornamental trees. On U. S. 20 with approximately 1050-ft. frontage. Large, modern sales building 50x115 ft. with connecting lath house. Office, storage building 50x80 ft. and a new barn 40x70 ft. Well-located retail drive-in trade and landscape operation. Excellent mailing list and large established clientele.

R. M. Pickett, Owner
THE CLYDE NURSERY
Clyde, Ohio

FOR SALE

OR LEASE

Nursery located in northwestern Ohio, doing good business and in a growing community. If you want to work and make money, check this one out as records will show this to be true. For full information write Box 610, care of American Nurseryman.

FOR SALE

14-acre nursery on main highway in growing suburban area southeast of Flint, Mich. 2-bedroom home, automatic heat; double garage; 1½-story, double-walled tile storage and packing house; office; implement buildings; tools, irrigation equipment, 3 tractors, etc.; small orchard. Ideal location for general nursery. Presently stocked with several thousand lilacs; buyer need not purchase all of specialized stock. Owner deceased. Will sacrifice for quick sale to settle estate. Land, buildings, equipment all in excellent condition. A real buy. For details write: **UPTON NURSERY**
Goodrich, Mich.

FOR SALE

THE E. J. SNYDER NURSERY IN WEST MILTON, OHIO

Owner retiring. Ideal soil and location, fine residence, greenhouses and necessary buildings, customer list, owner's good will and active assistance. \$13,500 down and easy annual payments.

E. J. SNYDER
West Milton, Ohio

FOR SALE—Property and business. 3 acres of land, bungalow, three 100-ft greenhouses, garage, 24x48 ft. **NESCONSET FLOWER FARM**, St. James, L. I., N. Y.

JULY 1951

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Performance and Profit!

Use and sell new
15 and 30 gal.
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Power Sprayers

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velocity mist to 25 ft. stream . . . truly
10 HP, 4 cycle gasoline engine . . . truly
low-cost! Write for complete line catalog.



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Display: **\$4.50** per inch, each insertion.

Lines: **40c** line; Minimum order **\$4.00**.

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PUNTA-GORDA VICINITY, FLORIDA
700 ft. on U. S. 17. 9½ acres, ideal
for nursery. Flowing well, one bed-
room, C. B. S. house. Price, \$16,800,
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TRAIL NURSERY
Boiceville, N. Y.
Phone: OL 7-2553

FOR SALE

Ariens Model B Roto-Tiller, good
condition, \$300.00.

JOSEPH A. MERTEL
2203 Shooting Park Rd.
Peru, Ill.

FOR SALE

High-clearance nursery tractors, 6-ft.
2-in. clearance. Used for cultivating,
spraying, evergreen and citrus tree ball-
ing, root pruning, bare-root digging.
Write for information.

NURSERY EQUIPMENT CO.
Maple Plain, Minn.

FOR SALE

Christmas tree plantation of 40 acres
with approximately 50,000 premium
Scotch Pine, 4 to 7 ft.

W. A. SWIFT NURSERY
R. D. No. 5 Greenville, Pa.

FOR SALE

Used complete greenhouses. Used
greenhouse materials, glass, pipe,
valves, etc. Greenhouses bought for
wrecking.

SEABOARD GENERAL SUPPLY CO.
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1050 Magnolia Ave. Elizabeth, N. J.

and exhibits. Adjoining is the Com-
mercial Museum, a showplace of
American and foreign commerce and
culture, also the scene of the city's
big spring flower show.

The United States Mint, on Spring
Garden street, between 16th and
17th streets, draws many visitors. At
the block-long 3-story granite build-
ing, erected in 1901, one may see
the minting of United States coins.
Dies for the coins are also created
there, and coins are minted for other
countries. In addition, the mint, on
order of Congress, makes medals for
honoring persons who have contrib-
uted to the nation's welfare and
progress.

Parks

Besides a host of other recreational
areas in Fairmount park, a fine
aquarium and zoological gardens,
the latter the oldest in the country,
are boasted of by the city.

Valley Forge state park, a short
drive from the city and another point
of visit by the juniors, remains not
only an historical shrine, but contin-
ues to grow in fame for its dogwood
plantings. Large groups of these na-
tive trees, planted a long time ago,
are now in their full growth and
present, when flowering, a picture
of greater beauty than can be found
in any other single spot where dog-
woods have been planted. One view
of these trees is pictured with this
article.

The dogwoods when in bloom at
Valley Forge are considered by hun-
dreds of thousands of visitors as one
of the country's greatest flower
shows. The peak of this event is May,
but because of the varied exposures
which the plantings hold within an
area of about 10 square miles, blooms
can be seen from the last week in
April through the first week in
June.

Famous Homes

Among the historic homes open to
visitors in Philadelphia, generally for
a small fee, are the Betsy Ross house;
the Deshler-Morris house, where
Washington lived for a time; Bishop
White house; Dillworth-Todd-Moy-
lan house; the Edgar Allen Poe house
and Powel house, restored mansion
of Philadelphia's first mayor after
the Revolution. Elfreth's alley, be-
tween Second and Front street near
Arch, one of the nation's shortest
and oldest streets, has the real colonial
flavor and homes that date from
1690, some continuously occupied
for over 200 years.

At Kensington, one of the "70 vil-
lages" that grew together to make
Philadelphia, English weavers cre-
ated and have kept a bit of London

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Get 1 bag
FREE
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6 cu. ft. — bag size 32"
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Poly-laminated
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for outdoor display
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NOW
SPHAGNUM PEAT MOSS
in bags

free flowing — no breaking up needed

READY & EASY TO USE

NOT SOLD BY WEIGHT
as moisture increases weight —
real value is cubic feet content

Premier's King Size Bag
containing 6 cubic feet costs about
the same as 100 lbs. Michigan Peat
containing 4 cubic feet

Ideal for the home gardener who wants genuine
sphagnum peat moss free-flowing from the bag

PREMIER PEAT MOSS

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Murray Hill 2-8586

Rush information on the "10% FREE-
KING SIZE BAG OFFER":

- ☐ straight carloads—6 cu. ft. and/or 3 cu.
ft. KING SIZE BAGS
- ☐ combination carloads of KING SIZE BAGS
with PREMIER bales and packages in-
cluded
- ☐ less carload
- ☐ send FREE wall chart "The FIRST STEP
in All Gardening" that shows my cus-
tomers how to use peat moss

Name

Street

City State

FOR SALE — Nursery in north central
state. Has been side line; health and other
interests force immediate sale. Wonderful
opportunity. Will sacrifice at \$12,500. Con-
crete building, 1664 sq. ft. Small greenhouse,
bath area, refrigerated storage, neon sign,
hood tractor, 3 acres on paved U. S. high-
way, stock included. Reply to Box 613, care
of American Nurseryman.

IDENTIFY DEFICIENCIES In Your Plants

with the

PROFIT PLANT

Diagnostic Kit

It's Simple—No Measuring



Only
\$7.95

1. PICTURES

Symptoms of each deficiency are shown in descriptive drawings in full and brilliant color on heavy, glossy cardboard. You compare your plants with the pictures.

2. INSTRUCTIONS

Complete instructions tell you when to suspect each deficiency and how it affects different plants. For example, iron deficiency is found in tree fruits and ornamentals, but seldom occurs in grasses. Zinc deficiency, however, affects tree fruits, grasses, ornamentals and many other crops. Also described are symptoms of toxic salts, virus disease and other leaf symptoms.

3. PLANT RESPONSE

After identifying the probable deficiency(ies) with pictures and instructions, the needed nutrients are applied to the plant. You add only water to a test unit packet of the needed nutrient in the 4-oz. spray bottle. One packet in 4 oz. of water makes a spray of the proper concentration for foliar application. May also be applied to the soil according to directions. A deficient plant will usually respond in 3 days to 2 weeks depending on the growing conditions and the particular nutrient.

YOU OWE IT TO YOURSELF to be able to identify symptoms quickly. You'll have better answers for your own growing problems and those of your customers.

You must agree the PROFIT PLANT Diagnostic Kit is worth many times its low cost of \$7.95 (plus 32c tax if in California) or your money back. Refills available.

ORDER NOW for better plants this year.

PLANT SCIENCE PRODUCTS CO.
1409B Powell St.
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Ask for quantity discounts.

away from home. Washington square and Rittenhouse square still distill an air of charm and elegance. Red, white and blue markers on utility poles indicate an historical site nearby.

After-dark entertainment in Philadelphia includes a variety of supper and night clubs. There are five legitimate theaters, six summer playhouses, with many first-run motion picture houses. Fine dining and dancing are featured in 15 top-grade hotels. Smart shops line Chestnut and Walnut streets.

Where To Dine

The convention and visitors bureau of Philadelphia has prepared a folder, available from the bureau, giving recommendations for places to dine. A few from among the many restaurant spots named follow; with mention of their specialty:

HOTELS

Belgravia, 1811 Chestnut street; cuisine from old American recipes.

Benjamin Franklin, 9th and Chestnut streets; "Flaming Sword" service.

Sheraton (convention hotel); French cuisine in Cafe Careme.

Sylvania, Juniper and Locust streets; colonial Philadelphia cooking.

The Warwick, 1701 Locust street; shrimp Lamaze, recommended by gourmets.

SEA FOOD

Bookbinders Sea Food House, Inc., 215 South 15th street.

Kelly's, 5 South Mosel street.

Old Original Bookbinders Restaurant, Inc., 125 Walnut street.

STEAKS—ROAST BEEF

The Anchorage, East River drive, Fairmount park.

Arthur's Steak House, 216 Chancellor street.

Orsatti's Bonfire Room and Pump Room, 13th and Locust streets.

The Prime Rib, 14 South 15th street.

AMERICAN AND CONTINENTAL CUISINE

The Capri, 1523 Locust street; de luxe menu.

Karlyn, around the corner from the Sheraton; Italian-American foods.

Longchamps, 18th and Walnut streets; French and American dishes.

Sansom House, 1302 Sansom street; German-American cooking.

Skyview Dining Room, Philadelphia International Airport.

Tarello's 1621 Chestnut street; Italian cuisine.

SUPPER CLUBS

Big Bill's, 1322 Locust street.

C'est la Vie, 1418 Spruce street.

Eden Roc Supper Club, 1305 Locust street.

CONDUCTING a landscaping business known as Kawaii Landscaping Co. is John G. Wadham, Jr., Los Angeles, Calif.

MOVED to C and Juniper streets at Hesperia, Calif., is the New Frontier Nursery. Edna Richards is manager of the firm.

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MODEL SRN

Uses jute or sisal twine to tie bundles automatically, up to 10 1/2 ins. in diameter. Will tie in any sequence with one wrap and with a nonslip bow knot.

ALSO - MODEL EM

A light, speedy bench model using cotton twine for bundles up to 4 1/2 ins. in diameter.

Our liberal trial period and guarantee insure you complete satisfaction.

LITERATURE ON REQUEST

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Orchids to Oak Trees

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ABSTRACTS OF RECENT RESEARCH

ROOTING YEW

The effects of the exposure of the stock plants to sunlight and the photoperiod under which the cuttings were rooted and the rooting aids used are reported for Hatfield yew by J. R. Kamp and Edward Van Drunen in the Illinois State Florists' bulletin for April, 1958. The tests included 800 cuttings, randomized, replicated and treated statistically.

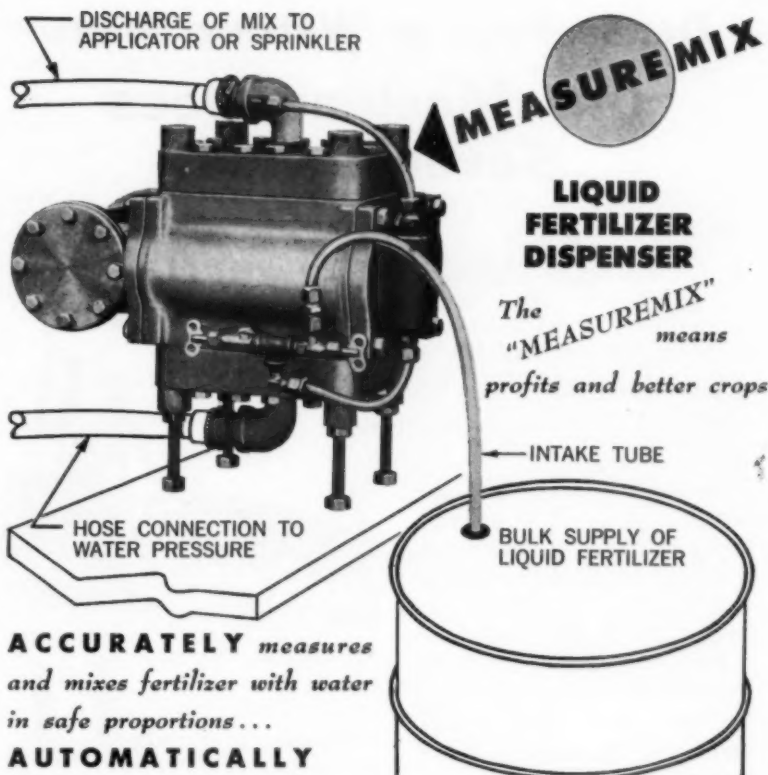
Half of the cuttings were from stock plants exposed to full sun. The other half of the cuttings came from stock plants in almost continuous shade. Half of each were rooted under normal day length, which was short. The other half received a 4½-hour interruption of the dark period at a light intensity of 15 to 20 foot-candles. A check treatment receiving no rooting aid was compared with the use of a No. 1 and a No. 2 rooting powder and Chloromone within each combination of photoperiod in the cutting bench and source of cuttings. All rooting was under intermittent mist in a 60-degree Fahrenheit greenhouse.

Cuttings were taken October 7, 1957, and removed on January 21, 1958, after 107 days in the cutting bench. They were graded into the classes excellent, good, fair, poor, callused and rotted, with values of five, four, three, two, one and zero assigned for statistical treatment.

Despite the fact that the yew is a plant suited to shady places, cuttings taken from stock plants in the sun rooted better than those from shaded stock plants. As an entire group, cuttings from the sunny areas rooted 10.7 per cent better than those from the shade under long days, 7.5 per cent better under short days or 8.8 per cent better when both long and short-day results were combined.

In every case, cuttings rooted better under short-day conditions than under long-day conditions. With cuttings taken as a group, the short photoperiod improved rooting 21.5 per cent. Despite the apparent retardation of rooting by the supplemental light, there was no top growth of the lighted cuttings during their period in the cutting bench.

Regardless of the source of the cuttings or the photoperiod under which they were rooted, they rooted best when Chloromone was used. For



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- **IS FULLY AUTOMATIC** • Driven and operated by the action of the flow of water, it does not require expensive power equipment.
- **ACCURATE UNDER ALL CONDITIONS** • The mixture is guaranteed within 10% with all types of fertilizer solution, regardless of any changes in the water pressure or rate of flow, and in most cases is within 2%-5%. No more crop losses from "Burning."
- **PORTABLE** • Can be operated anywhere by one man. Takes the fertilizer straight from the Bulk Tank through a syphon tube. Allows a completely clean operation, without spillage or waste, and is so foolproof, it can be operated by untrained labor. Ideally suited for truck gardeners, flower growers, etc. Model R-3 for ¾" hose connection will handle up to 15 gallons water per minute. Model R-8 for 2" hose will handle up to 100 gallons water per minute.

Write for FREE descriptive literature, prices, instruction sheet, and list of growers using this equipment.

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No. 3 Container-Marker (picture and holder). Holder is 27 inches high. Prongs at bottom in the wind. Use for salesyard display.



Dense Fogs or Wetting Mists One Machine Does Several Jobs

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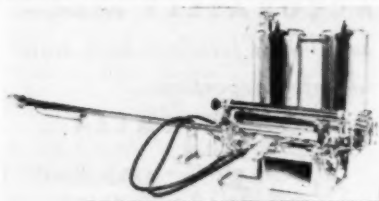
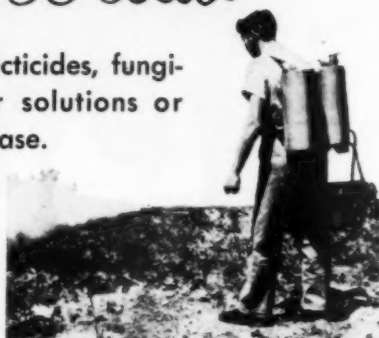
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completely portable for insecticides, fungicides, weedicides — either solutions or emulsions — oil or water base.

Dyna-Fog Mr. is the most versatile machine on the market. Dense fogs to wetting mists are easily and quickly changed with a flip of the selector lever. No maintenance required—has only one moving part. Made of aluminum and stainless steel. Unit weighs only 15 $\frac{3}{4}$ lbs. empty — back tank 8 $\frac{1}{2}$ lbs. empty.

There's a Dyna-Fog distributor near you to give you an on-the-spot demonstration.

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Shipped complete — 1 unit, 1 back tank

\$359.50

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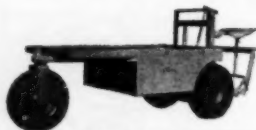
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Model AN 3-54, 1/4 ton

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Phone: 5Ycamore 7-1171

instance, in the lot taken from the exposed stock plants, all but two of the cuttings rooted under long days and all but one of the cuttings rooted under short days had either good or excellent root systems when Chloromone was used, as compared with one and 13 in the check lots under similar conditions. The comparison of 97 such finely rooted cuttings with 14 in the check lot was outstanding.

The combination of cuttings from the stock plants in the sun, rooting under short days and the use of Chloromone improved rooting 154.4 per cent over cuttings from shaded stock plants rooted under long days without a rooting aid. In other words, each of the three factors (illumination of the stock plants, photoperiod and rooting aid) acted in an additive way.

Statistical analysis showed improvement by selection of cuttings from stock plants in the sun was significant at the 5 per cent level, rooting the cuttings under short-day conditions was significant at the 1 per cent level and the use of Chloromone was significantly better at the 1 per cent level. The other rooting aids failed to produce any significant improvement in rooting at that time of the year and under the conditions of the tests.

SHOOT MOTH TESTS

Out of six systemic insecticides evaluated for control of the European pine-shoot moth, Thimet applied to the soil gave the most lasting effect. Results of these experiments conducted in red pine plantations in Ottawa and Wexford counties, Michigan, by Dean L. Haynes, Gordon Guyer and James W. Butcher, are reported in Vol. 41, No. 2 of the quarterly bulletin of Michigan State University.

The chemicals, all known to have systemic properties, were Thimet, Chemagro 221, Phosdrin, American Cyanamid 12008, demeton and Bayer 19639. All of these except Bayer 19639 and Chemagro 221 were applied in both the late summer of 1956 and early spring of 1957. The materials were used as foliar sprays, soil treatments and bands applied to the trunks of the trees.

Results were evaluated by examining samples of damaged shoots taken in September, 1956; April, 1957; May and June, 1957, and October, 1957. All of the foliar sprays applied in the fall gave a high initial kill of shoot moth larvae, but there were no significant population differences among plots the following spring. In Wexford county soil and

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banding treatments showed no effect on the larval populations until late spring (June) samples were examined. At this time systemic action was evident in Wexford but not in Ottawa county because, in the opinion of the authors, the trees in Ottawa were stunted by the insects and lacked the vigor to take up the chemicals. Thimet was one of the best materials tested, and as a soil drench it reduced the infestation by 81 per cent at the end of the first generation.

Sprays applied in the spring gave a greater reduction of the treated generation than was obtained with fall treatments. Phosdrin and American Cyanamid 12008 caused a marked reduction in the larval population. Thimet sprays reduced the population 75 per cent in Wexford county but had no effect in Ottawa.

Soil and banding treatments in the spring produced different results from the fall treatments. Only Bayer 19639 reduced the larval population significantly. None of these treatments had any significant effect on the second generation. I.

ELM BEETLE CONTROL

Several organic chemicals implanted into mature elm trees were readily translocated into the foliage and persisted many weeks, but only Chipman R-6199 at a dosage of eight grams per tree gave marked control of Scolytus multistriatus. This report on the efficiency of systemic insecticides in the control of the smaller European elm bark beetle by A. F. Al-Awazi and J. E. Casida, of the University of Wisconsin, Madison, may be read in the Journal of Economic Entomology, volume 51, No. 6.

A number of chemicals were evaluated in the laboratory by placing bark beetles in vials with elm twigs that had been treated on the cut end with acetone solutions of the chemicals. Under these conditions, Thimet, dimefox and Bayer 19639 were more active than DDT, and these in turn were more active than American Cyanamid 12880, 18706, Chipman R-6199 and R-6200.

When fresh elm branches about six feet long with a 3/4-inch diameter were allowed to absorb the chemicals through the basal cut, beetles confined to the terminal portions of the branches were most readily killed by dimefox and demeton. Thimet was intermediate in effectiveness and Chipman R-6199 the least effective.

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Thimet, demeton, dimefox and Chipman R-6199 at one or eight grams of actual insecticide per tree. At intervals after treatment, twigs from the trees were taken to the laboratory and assayed for toxicity to bark beetles. Chipman R-6199 was far superior to any other chemical and was the only one that gave a significant kill of beetles and reduced the length of the feeding scars. Thus Chipman R-6199 was the least active chemical in the laboratory but the most active in the field for control of the European elm bark beetle. None of the chemicals was phytotoxic at the 1-gram dosage, and there was indication of foliar burning with dimefox only at the 8-gram dosage.

A DDT spray applied to dormant elm trees according to recommended procedures was more effective in controlling *Scolytus multistriatus* than any of the systemics used. Furthermore, DDT was much more effective than Chipman R-6199 in minimizing feeding before the beetles were killed. This may be a critical factor in the use of a chemical for control of the Dutch elm disease, according to the authors. I.

PHILADELPHIA'S GARDENS

[Continued from page 11]

interesting features are two sphagnum bogs with their characteristic plants.

Nature classes are conducted by the park naturalist, and talks and walks are given during the summer months.

The plants in the preserve "are dedicated as living memorials to the patriots of Washington's crossing, who camped in these hills before the Battle of Trenton and made the famous crossing of the Delaware on Christmas night, 1776. This was the turning point of the American Revolution and made the Declaration of Independence a reality."

Washington Crossing park itself is well worth a visit. Good restaurant facilities are available.

Longwood Gardens

Longwood Gardens are one of the great horticultural centers of the country. Part of the land was a grant by William Penn to George Pierce in 1702, and this and other land was acquired by Mr. Du Pont to make the present arboretum property of about 1,000 acres. The original arboretum was established by the Pierce family in 1800 on about 197 acres. Through Mr. Du Pont's interest and the Longwood Foundation the arboretum has been developed into not only a wonderful collection of plants, but a great educa-

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tional and cultural center as well. In addition to the large outdoor plantings the conservatory and greenhouses contain important collections of exotic and greenhouse plants. The special exhibits in the conservatory, varying with the season and including camellias and chrysanthemums, are comprehensive and contain the best types of plants and blooms.

The aquatic gardens are important, and the water garden patterned after the Villa Gamberaia near Florence, Italy, is one of the outstanding sights of the country. In the evening, the fountain display with colored lighting is unusual and beautiful. Other features are the great pipe organ in the conservatory and a chime tower.

Morris Arboretum

Bequeathed to the University of Pennsylvania by Lydia T. Morris, Morris Arboretum with its 170 acres in the Whitemarsh valley area contains a collection of plants made by Miss Morris and her brother, John T. Morris, over some 40 years of collecting. The trees and shrubs brought by the Morrises from all parts of the world, supplemented by more recent collections, are of unusual value, because they contain

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the most representative plantings of any arboretum in the Philadelphia area with the possible exception of Longwood Gardens, at Kennett Square, Pa.

The arboretum is particularly noted for its collection and study of oaks and hollies. During the azalea and rhododendron seasons, it is especially interesting, but at all times the great variety of plants makes it important and instructive.

Scott Horticultural Foundation

The Arthur Hoyt Scott Horticultural Foundation displays a fine and comprehensive collection of woody plants, particularly lilacs, magnolias, rhododendrons, azaleas and flowering crab apples. The rose garden contains about 900 plants of about 250 varieties and was established by the foundation through the generosity of Robert Pyle, of the Conard-Pyle Co., West Grove, Pa.

Fine collections of peonies, both herbaceous and tree, hemerocallis and iris add to the attractiveness of the grounds, which are an integral part of the Swarthmore College campus. The foundation is noted also for its unusual daffodils.

John J. Tyler Arboretum

The John J. Tyler Arboretum, at Lima, was developed by Jacob and Minshall Painter, starting about 1845. Most of the land came from an original William Penn grant to the family from which the Painters descended and continued in a direct line of descent to John J. Tyler, who, with his wife, Laura J. Tyler, bequeathed it to the John J. Tyler Arboretum. The 657 acres contain great diversity of soil characteristics, with varied topography and watercourses. There are no primeval trees standing, but there are many trees of large size and natural plantings of tulip, dogwood, oak and maple, and these make delightful woodland areas.

The particularly notable trees of large size are Sequoia gigantea—one of the few specimens in the east; a large and beautiful cedar of Lebanon; an Oriental spruce of large size; a large ginkgo, and an interesting bald cypress, which has developed the typical "knees," not often found in northern specimens.

While the spring bloom will be over at the time of the A. A. N. meeting, the story of this arboretum would not be complete without the mention of its collection of rhododendrons; azaleas; lilacs; crab apples; peonies, both herbaceous and tree; its daffodil test gardens, and plantings of many thousands of

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spring bulbs. The natural growth of dogwood is of great significance, now and for the future.

One other item of particular interest is the fragrant garden for the blind. Built in terraces, the garden is arranged so that blind persons may guide themselves by hand and foot rails through an interesting collection of plants selected for their fragrance and texture. All may be handled without stooping, and Braille labels giving the names, both scientific and common, are attached. Labels of the ordinary sort are also with the plants.

Botanically, one area is of unusual interest. On a large serpentine barren grows *Phlox subulata*, which when in bloom presents a mass of color covering a hillside known as "Pink Hill." Only a few natural plantings of this kind are known.

U. of P. Botanic Garden

The University of Pennsylvania Botanic Garden includes collections of trees and shrubs, rock garden plants and aquatics. Greenhouses hold orchids, palms, aroids, ferns and succulents. The plantings are used for botanical department teaching and research, along with the Morris Arboretum of the university.

Winterthur

Winterthur estate, between Greenville and Centerville, Del., is open to the public upon a limited basis. Mr. Du Pont has advised that on Monday, July 20, it will be possible to drive through, stopping at the cutting garden, a drive of about three miles. The grounds will be open from 9 a. m. to 5 p. m. No picnicking is permitted.

The Henry Francis du Pont Winterthur Museum will be open July 21 to 23, when a short tour of eight rooms may be made at a charge of 50 cents.

The garden is noted for its fine collection of azaleas and rhododendrons. The museum contains probably the finest collection of early American furniture ever assembled. Guides are provided for visitors, and information about the collection is freely given. A visit to see all of the rooms and furnishings would be a long one and may only be made if reservations in advance are arranged. The short tour mentioned above does not require reservations.

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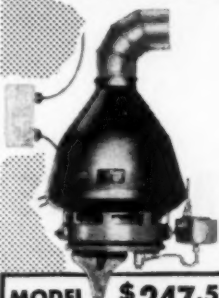
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Tree Bracing and Cabling

By Fred E. Wagner

The procedure of bracing and cabling shade trees is not new in tree care and preservation. It dates back to the turn of the century, when other methods of tree care began. To be most effective, this procedure should be performed properly and requires some study and experience.

Bracing and cabling are important phases of tree care; the beauty and use of many trees could be prolonged much longer if they were employed more often. Common entrance places for wood decay fungi, insects and other destructive agents are split crotches, wind-torn branches and areas damaged by heavy ice storms. Not only does the lack of bracing and cabling leave an injured tree open to attacks, but after a windstorm or sleet damage, a beautiful tree may be left badly disfigured and damaged. Some supplementary support, such as brace rods or cables, may often prevent damage rather than be necessary as a corrective measure.

For Normal Conditions Only

Bracing and cabling can be effective only under normal conditions, however. Almost anyone would agree that efforts to make a tree stronger would be useless in the event of tornadoes or severe sleet storms.

Not all shade trees require bracing or cabling, but those most likely to need support are elm, maple, linden, ash and hackberry. It is difficult to specify any one species, because almost any tree may require treatment at some time or other, depending on various situations. Many times the trees named may never need any attention. Usually the operation is needed for large, older trees; trees with V-shaped crotches; branches and crotches that have been weakened by wind, and crowns of trees or individual branches that have become too heavy with excessive growth.

Occasionally, environmental conditions, such as strong prevailing winds, necessitate cabling, or shallow-rooted trees and trees that have been transplanted may need to be cabled to nearby trees for added support.

Address, "Tree Bracing and Cabling," presented by Fred E. Wagner, Wagner Tree Surgery Co., McPherson, Kan., at the meeting of the Kansas Arborists' Association, held earlier this year at the Kansas State College, Manhattan.

Before any cabling or bracing is done, there are some factors that should be considered, such as the age of the tree, the species, how extensive the project will be and the tree's general value as to sentiment, location and other persons.

Preventive Measures

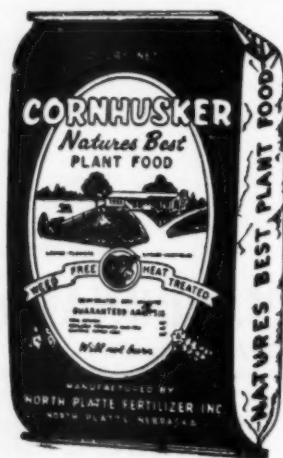
Bracing and cabling can be classified in two categories. The method first can be a preventive measure to protect against possible damage by strong winds, sleet damage, crotches splitting out and loose branches in the crowns caused by excessive growth. Preventive steps taken when the trees are young and still growing will help eliminate damage and aid the tree in developing a better crown and more beauty. Good practices to follow while trees are young are proper pruning and removing branches that are likely to develop into weak crotches or branches that are out of balance. It is now possible, and has been for many past years, to obtain from nurseries trees free from V-type

crotches and other undesirable features that may cause trouble in years to come. Any good nursery will avoid selling a poor tree and will advise which is best for the desired effects. Most times nurseries offer help in pruning and training trees they sell or plant.

In selecting a tree for general-purpose plantings, one is wise to get one with a straight central trunk, one that has good scaffold-type branches and one free from V-type crotches. Its planting location should be studied, and it might be well to obtain trees that are not likely to grow to great heights, especially in areas where strong winds and sleet storms prevail. The preceding suggestions are made to preserve the beauty and use of shade trees and prevent perhaps even the need for bracing and cabling.

Corrective Measures

The second category of bracing and cabling might be considered that of repair or corrective measures, usually necessary with older trees or



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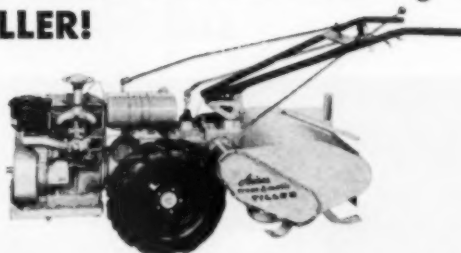
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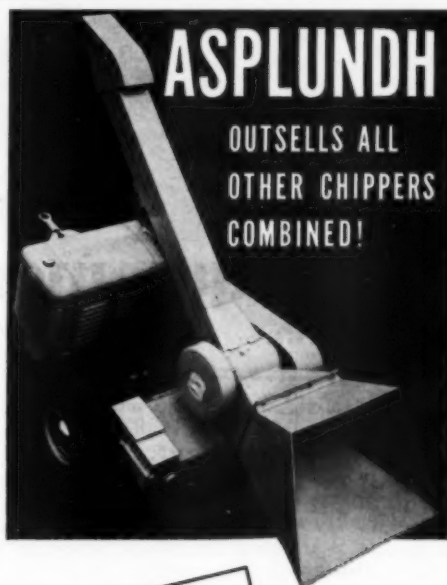
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those that have been damaged by wind or other elements. The operation should be considered important and essential, because many good trees have been saved only by proper treatment. Almost always the need is obvious when split crotches, crowns with wide spreading branches or branches that need additional support are evident.

To perform a cabling operation, whether it be a preventive or a repair measure, some general methods should be followed. A 3-man crew is the most efficient for just about any cabling operation. One man is needed on the ground to prepare the cables and pass up tools and other items, and the other two are needed in the tree to install lags or other fixtures, make measurements and complete the installation. One of these men should be at each end of the cable locations. The men in the tree should, of course, be working in safety ropes and saddles, both for safety and efficiency of operation.

Types of Bracing

Competent arborists usually consider tree bracing under two divisions: Cabling and rod bracing. Cabling is the use of flexible cable installed high up in the tree crown to distribute the load of branches



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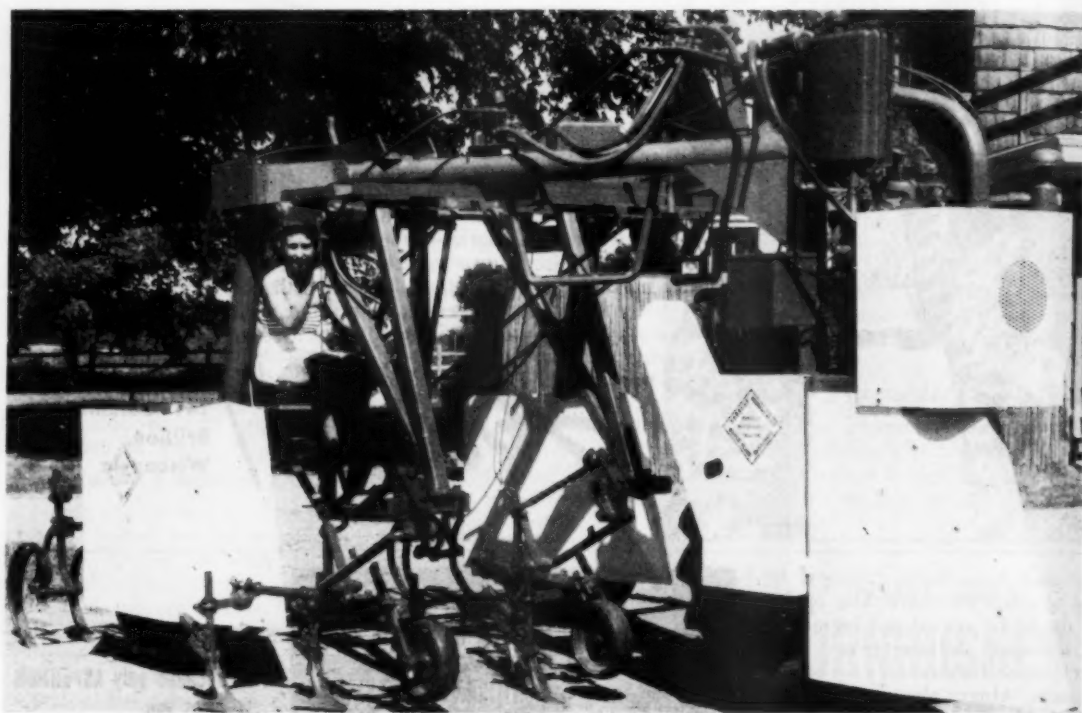
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evenly and make them function as a unit, thereby strengthening weak crotches.

There are several cabling systems used to draw branches together, and perhaps no two trees require the same one. The simplest way is to install a single cable between two branches arising from a single crotch and is classified as a direct system.

Multiple Cables

When several branches in the crown are to be drawn, the problem becomes more difficult and there is the need for multiple cables and a different system. When multiple cables are used, a triangular plan is

effective, as it provides direct support to all crotches and also provides lateral support, to minimize twisting. The triangular system is probably the most widely used, especially on trees with many V crotches. It is installed by cabling three or more branches together with the cables at different angles to each other to complete the triangle.

Another system is cabling from a branch on one side of the crown across to another branch on the opposite side. This system could be used with multiple cables, each of them going directly across from each other. Much could be written about various systems for cabling, but it

should be remembered that in any operation, no one system has to be used, because not all trees are alike. Each operation should be carefully studied and cables installed to effect maximum support.

In deciding on the locations of cables, one should keep several factors in mind. Cables should not be placed so they will rub against branches, causing abrasions to the bark, nor should they rub against each other. They should be high enough in the tree to give ample support, which is usually about two thirds the distance from the crotches to the top of the branches. If they are below that area, sometimes branches will

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(Plant Pat. No. 1665)

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Doz. \$16.80
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Here is what the originator says:

"ALLGOLD has been consistently good with me. The first year the colour caught my eye. No other Floribunda has its deep unfading clarity. It is shining gold from the first glimpse of colour in the bud until petal drop."

"The more we have grown of this variety and the more experience we have had of it, the better we like it. We have not been able to find a fault with this Rose. Wet or dry, cold or hot, the blooms open the same clear unfading golden yellow. 'Sunshine on a dull day,' it brings cheer into my garden whatever the weather."

"Especially noticeable has been its resistance to black spot. It remains in full leaf even when other varieties around it are leafless."

"It is the considered opinion of both amateurs and nurserymen in England that it is the most outstanding yellow Floribunda yet introduced. For depth of colour, unfading qualities, freedom of flower, health of growth, it is absolutely 'tops.' Winner of leading awards from the National Rose Society, The Royal Horticultural Society and The Royal Agricultural Society of England."

OTHER OPINIONS

NEW ZEALAND: 7th August, 1957. (Avenue Nurseries, Levin) New Zealand. ALLGOLD put up a magnificent display last autumn (April-May) and far surpassed anything that Golden Delight had done. ALLGOLD really shown out amongst all the other Roses and was a real show for quite a long period. We wished that we had imported three times as many of it.

HOLLAND: Jan Spek, Boskoop, Holland. I just went through the Roses I patented for you and came to the following conclusions: I think your ALLGOLD is the very best and would say that it seems the best yellow Polyantha on the market.

FRANCE: 24 September, 1956. (Roseraies Pernet Ducher). La rose ALLGOLD. Cette variété paraît très bonne. (Cette variété) a une très bonne couleur jaune qui résiste bien, elle est bien supérieure à Goldilocks.

ITALY: Arturo Ansaloni (Bologna) Italy, August 20, 1957. As reported previously the Rose ALLGOLD has been very interesting; this year again we have had the opportunity of ascertaining that this novelty is very floriferous; the individual flowers of good shape, double and the colour is a deep yellow. In our opinion this is the best yellow among Floribundas.

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snap off in strong winds at the point of attachment. Above that area, great tension can cause branches to buckle and break below the point of attachment.

Cable Tension

The tension of the cables should be enough to hold branches and crown securely, but not so tight that the cables will pull lag hooks from the point of attachment, nor so loose that they will sag. The mechanic's best judgment is about the only deciding factor that can be used to determine how tight the cables should be. They should be installed so that they are an equal distance up from the lower crotches or running as nearly parallel as possible. Lag hooks are most widely used, and they should not be installed at or near the intersection of small crotches up in the tree, causing them to split the small crotch or pull out entirely. If it is necessary to install lags near a small crotch, they should be installed at least 12 inches above or below.

Lag hooks should be inserted in holes which are drilled one-sixteenth inch smaller in diameter than the lag. The hole should be drilled slightly deeper than the length of the lag to prevent splitting, and it should be drilled so that the cable and lag form a straight line at the point of attachment. Lags should be turned into the branch just far enough to allow slipping the cable and thimble over the hook.

After the lags are installed, the branches are then drawn together by means of a rope tied from branch to branch about where the cable is to be installed. Block and tackle, which are attached up in the tree, can be used for pulling. Sometimes the two men working in the tree can do the pulling from their location. There are various ways branches can be pulled together, and almost any is satisfactory, as long as it does not damage the tree.

Avoid Slack in Cable

Pulling branches together is done to avoid slack in the cable after it is installed, which would surely appear after the cable had a chance to stretch. It is known that 7-strand cable will reach a final stretch of about one inch per foot of length before breaking. It is important that no slack be left in the cables, in order to avoid sudden heavy loads placed on cables by jerking caused by gusty winds. Sagging cables are not only ineffective but leave an appearance of poor workmanship.

Cables may be attached to a lag by means of an eye splice or a cable

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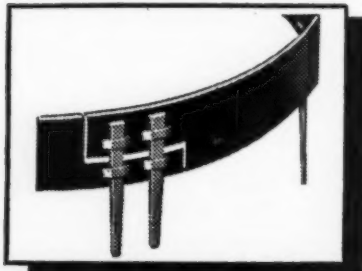
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clamp. The eye splice is more desirable because it is less conspicuous and, if properly made, is more efficient. It also gives an appearance of more professional workmanship. In preparing cables, one should use thimbles in making eye splices rather than cable alone to prevent excessive wear caused by friction.

To make an eyesplice, one first forms a loop by bending the 7-strand cable about 10 or 12 inches from the end; then a thimble is inserted into the loop. The 10 or 12-inch end is then bent tightly around the thimble to parallel the main cable. The strands are then separated, and one strand is wrapped as closely to the thimble as possible and turned tightly around the remaining six strands. About two or three wraps are made with the first strand, and the end of the strand is then cut off. The remaining strands are wrapped tightly around the cable until the splice is completed. The strands are wrapped one at a time.

Materials and Sizes Vary

Materials and sizes used in cabling can vary. Turnbuckles, eyebolts, screw eye bolts and, of course, lag hooks are most commonly used. When cable is used with these fixtures, it is always advisable to use the eye splice for the attachment. Cable can be obtained in sizes from $\frac{3}{16}$ to $\frac{1}{2}$ -inch diameter, and lag hooks and other fixtures come in comparable sizes. Sizes of materials used in cabling work vary, of course, with the size of trees and branches. Most jobs will call for cable sizes from $\frac{3}{16}$ to $\frac{1}{2}$ -inch diameter, with lags of similar size or preferably one size larger than thimbles and cables.

In small or ornamental-type trees, smaller cables can be used. As a guide, one might set a standard for branches up to three or four inches in diameter using $\frac{3}{16}$ or $\frac{3}{8}$ -inch materials and for branches over that size, $\frac{1}{2}$ -inch materials. It is rather difficult to know the exact tension and other factors, and it is an equal problem to specify exact material size. Manufacturers can usually supply specifications and other data on tensile strength and safe loads for the materials to be used. To supply an excess of support rather than too little is a good point to remember.

Many times one sees crotches and branches drawn together by different methods and hardware. It is hoped this work is not done by anyone who claims to be a professional.

Often seen are steel wagonwheel tires, fence wire, iron bars, chains and many other outdated materials wrapped around trunks and branches. They may serve a purpose

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up to a point, but they represent poor tree care. Nothing should be wrapped around trunks or branches to brace or cable a tree; the material must always go through or into the wood. Wrapping retards the flow of sap, damages the bark and sapwood and many times kills the growth above the branches.

If done in a professional and workmanlike manner, cabling is effective, inconspicuous and a credit to the arborists' profession.

SOUTH CAROLINA MEETING

[Continued from page 25]

the state, grasses are being planted. Approximately 1,000 pounds of a 5-10-5 fertilizer are being used per acre. Seeding is done the first part of October and the end of March. The highway department has been using a mulch on these plantings and likes it very much, reported Mr. McEachern. Two tons of hay are broadcast per acre, and a mixture of asphalt and water is sprayed on top to hold the hay in place. In order for a group to inaugurate a beautification project a sketch of the plan and specifications have to be submitted to the state highway engineer. The highway department, he said, cannot take the responsibility for damage or theft of plants.

When trees or shrubs are planted, they should not interfere with mowing. Small islands are planted with grass only; small shrubs can be used on larger islands. On narrow medians, grass only is planted, while on large medians some shrubs are used.

Heard with interest was the talk on merchandising delivered by Arthur Lancaster, Jr., Coleman Nursery, Inc., Portsmouth, Va. In the dictionary, merchandising is defined as trading, buying and selling and traffic, he began. Cost is an important item in merchandising. Overhead has to be included in the selling price. Coleman Nursery, he related, tries for a 40 per cent markup on merchandise. Since overhead is figured at about 28 per cent, if a 40 per cent markup is obtained instead of 33 1/3 per cent, the profits can be doubled.

Compete with Quality

More competition is apparent in the nursery business, but the nurseryman cannot and should not try to compete by reducing prices. The only way for nurserymen to survive is to sell a better plant, he believes. There is too much thought being given to price and not enough to quality. Coleman Nursery is con-



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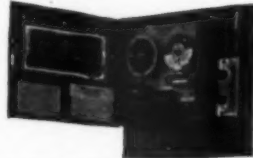
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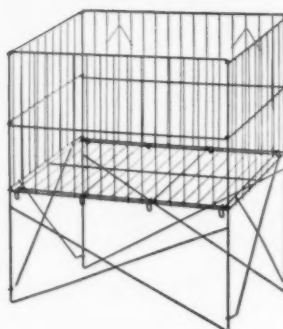
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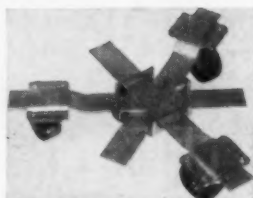
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stantly trying to educate the public into quality, he related.

Mr. Lancaster urged the nurserymen to employ persons who are experienced, so they can give advice and encourage repeat sales. Nurserymen are the servants of the public, he said.

He stressed working with organizations. Approximately two or three nights a week he or one of the other employees is participating in garden club meetings.

The owner of a garden center business should keep check on his employees, for there have been numerous cases in which large sums of money were stolen. A cash register receipt should be given to every customer, he said. The owner should be concerned over what may not be going into the cash register, cautioned Mr. Lancaster.

The garden center should believe in the quality of its plants and guarantee them for a growing season, said Mr. Lancaster. Build up the customer's faith in one's business, he advocated.

In pricing, it is better to offer 10 plants at a reduced price than 12, so the customer can more readily determine the saving. Items should be placed around the cash register, advised Mr. Lancaster.

Appearance of a nursery is important. Keep it tidy, so people will feel they can even shop there in their Sunday clothes. A woman at the Coleman Nursery continually dusts the entire shop. Word-of-mouth advertising is free, so do everything to start conversation about one's place of business.

At the Coleman Nursery, each plant is labeled as to what it is and what it will do. Also, each plant is priced. A large sign reads: "All our container-grown plants are guaranteed to live." The nursery wants people to know this. There is also a sign pointing out that bare-root plants, azaleas, annuals and perennials are not guaranteed.

Display beds are raised three feet, as the Coleman Nursery believes that once a customer gets his hands on a plant he will keep them there. Also, the elevated plants look larger, he pointed out.

Mr. Lancaster said he has found it better to purchase finished foliage plants rather than try to grow them in a greenhouse. He also thinks it better to have one line of insecticides, as the customer is then not confused and the salesperson is not undecided on which brand to recommend. Also, quantity purchases can be made to obtain a discount.

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garden club snack bar, with all items for flower arranging, he pointed out.

All roses are potted in egg cans about February 1 and are not sold until May 1. A mixture of 60 per cent soil, 15 per cent perlite and the rest peat moss is used. Superphosphate and chlordane are used.

Rose Selling

When the time comes to sell the roses, they are placed, in bloom, next to the highway and are floodlighted at night. They are arranged in alphabetical order according to the type of rose, hybrid tea, climber, floribunda or grandiflora.

This past February 9,300 bushes were potted and included 143 varieties. Even though less expensive plants were offered down the street, the nursery practically sold out, he reported. Cards were sent to 1,000 persons on the waiting list for rose plants, so they would have priority. To begin the sale, an advertisement was run in the local newspaper on Friday, announcing the sale would begin the following Wednesday. During the rose season, he added, a booth was set up near the plants to display accessory items for roses. A chrysanthemum sale, similar to the rose sale, is held in fall, he added.

Mr. Lancaster related that a garden clinic was held one night in September, with representatives from various supply firms present, and 375 to 400 persons attended.

Rounding out the morning session, Hubert Nicholson, Commercial Nursery Co., Decherd, Tenn., president of the Southern Nurserymen's Association, invited the South Carolina members to attend the convention at Jacksonville in August. He added that 60 trade exhibits would be staged this year.

President Marvin urged the nurserymen to join the South Carolina Camellia Society, which now has approximately 1,200 members.

Tour

Departing on buses Monday noon, the nurserymen traveled to Stephen's Nursery, Irmo, where they enjoyed a chicken barbecue on the spacious front lawn. Afterward, the group visited the South Carolina Electric & Gas Co.—McMeekin station, and viewed the earth dam, the largest in the world, containing 13,000,000 cubic yards of soil.

Continuing on the tour, the group saw the attractive Forest Lake Garden Center, owned by George Gottlieb, Columbia Nursery Supply Co., Columbia; F. J. Aichele, Jr.; Carolina Floral Nursery, Mount Holly; Norwood Hastie, Magnolia Gardens

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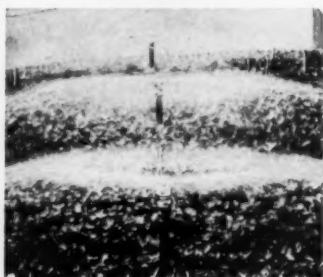
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Less water Less trouble
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View of Monarch Foggers in propagation cutting bed. Foggers are installed on standpipes 4 to 5 ft. above cutting beds and 4 to 5 ft. apart.

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Available with
1/4, 1/2, 3/4-in. male
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pipe thread.

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FOGGER CAPACITY AND APPROXIMATE
BENCH WIDTH COVERED
at 25 lbs. Pressure, 4-Ft. Height

Orifice Size	Spray Angle Degrees	Gallons Per Hr.	Coverage 4-Ft. Height
0.9	60	0.45	
4.6	160	2.30	36 ins.
6.4	160	3.20	48 ins.
10.0	160	5.00	60 ins.
14.5	160	7.20	72 ins.

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& Nursery, John's Island, and John Brailsford, Orangeburg.

The tour ended at the University of South Carolina, Columbia, where the extensive landscaping of the new student activity building and men's dormitories was inspected. Performed by Mr. Aichele, the plantings include numerous 30 to 40-foot dogwood trees.

That evening the nurserymen enjoyed a social hour, followed by a steak dinner. A variety of entertainment acts were witnessed, after which an extensive group of door prizes was distributed. Dancing concluded the evening's program.

Tuesday morning, June 16, an A. A. N. Dutch breakfast was held. Elected chapter president was Norwood Hastie, with Robert Marvin, vice-president, and Margaret Higdon, Higdon's Nursery, Charleston, secretary. Delegate to the 1959 convention is Mrs. Higdon, with R. B. Taylor, Greer Nursery, Greer, alternate. Elected as delegate for 1960 was Dwight Cain, Spartanburg Landscape & Nursery Co., Spartanburg, and R. B. Taylor as alternate.

Final Session

Opening the final session Tuesday morning, June 15, was a talk by R. F. Richards, Geigy Chemical Corp., Ardsley, N. Y. His talk centered on the company's new herbicide, Simazine. He explained it was registered in March, 1958, for ornamentals and is marketed as a 50 per cent wettable powder as well as a granular formula. The product is low in solubility and remains in the soil a long time. It will provide control over a growing season. He pointed out that shallow cultivation will not affect control.

The product is effective only by being taken up through the roots and will not burn the foliage of weeds. Thus the danger of drift is minimized. Weed seedlings are killed as they germinate, he added. Simazine will not control nut grass, Johnsongrass or Bermuda grass, he said, but will control most annual grasses. It is most effective as a pre-emergence control.

Mr. Richards mentioned some of the ornamental plants named on the product label, with which Simazine can be used. Last year tests with forest nursery crops and with mature fruit trees showed promise. He said extensive tests need to be made before plants can be added to the label list.

Mr. Richards recommended using the herbicide on a limited area at first, to see how it reacts in the nurseryman's particular soil and climate

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conditions. He mentioned that Simazine can be used in heavier dosages as a soil sterilant. Also, he pointed out that Simazine does not move laterally in the soil.

Nematode Control

Next appearing on the program was Thomas E. Lytle, Shell Chemical Corp., who talked on nematode control. He classified nematodes into three groups — those living in the roots of plants; those feeding on the roots from the outside, and those that feed on the stems, buds or foliage. Mr. Lytle showed slides illustrating the damage caused by nematodes on various plants. He pointed out that a hand gun injector is good for a small area, while with the drench method, much water is required to wash the dosage in. Lower dosages can be used in preplanting treatments, he pointed out.

Called upon for a few words was L. H. Senn, assistant state entomologist, Clemson College. He said that South Carolina is the first state that has treated all infested areas for white-fringed beetle. Also, all reported areas have been treated for the imported fire ant. There is concern over Japanese beetles, as plants are bootlegged from infested areas

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into North Carolina. However, there is not so much danger to nursery stock as previously believed. Approximately 300,000 acres are infested in the state.

Dr. Paul Alexander, assistant plant pathologist, Clemson College, reported on the nematocide and fungicide projects that he has set up with turf. He called attention to his nematode survey, having accepted soil samples from persons around

the state. A 1-pint plus soil sample freshly dug from around the root zone of a plant is required. A 1-quart plastic freezing bag is a good container, he said.

The location of the soil sample, the type of plants in the area or that will later be planted and the date the sample was taken are data to provide with the sample, he said.

The nematode problem has just come up in the past 10 years, he

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said. There are 13 major parasitic nematodes in South Carolina. A pre-emergence treatment will cost 50 per cent less than postemergent treatment. As nematodes are more active in warmer weather, a soil sample should not be taken during the winter months.

Dr. Alexander said work is continuing on camellia flower blight. A good control is available, but the problem is to get the information to persons and have them use it.

Reporting for the department of agriculture and marketing at Clemson College, William Faver, Jr., assistant agricultural economist, said tests have been made on colored labels in nurseries and garden shops, one in the fall of 1958 and the other this past spring. More work is needed on this project, as the results were influenced by the drought last November, he reported.

The final session of the convention meeting. After the and resolutions had been given, the members to so it can the association, promote the the state. At is no activity to the next.

After considerable discussion, a motion was passed to form a voluntary committee to work with the executive committee and to have full action within the financial means of the organization to put a plan of action into effect. Serving on this committee will be the following: Margaret Higdon; Robert Marvin; Walter Merry; John Bregger, Long Acre Nursery, Florence; John Brailsford; J. Homer Taylor, Taylor's Nursery & Landscape Service, Florence; Norwood Hastie, and Douglas Taylor, Greer Nursery, Greer.

After much discussion, the increase in dues to \$10 per year was made retroactive to June 14.

A motion was passed for the incoming president to appoint a committee to draw up a code of ethics for the association.

The new officers and executive committee members were elected as reported earlier, and the executive committee was empowered to select the dates and place of the 1960 convention, with the Clemson House, Clemson, being given preference by the membership.

A vote of thanks was extended to George Gottlieb, convention chairman, and the various other individuals who contributed their time to make the convention a success.

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Legal Decisions

NURSERYMAN'S LIEN

In any state where the mechanic's lien law does not clearly give a nurseryman or landscaper a lien right, it is likely to require a decision by the state's highest court to determine whether such a lien is enforceable.

As the Tennessee statutes read, when the case of *Nanz vs. Park Co.*, 103 Tenn. reports, 299, was decided by the Supreme court of that state, it was ruled that a florist was not entitled to a lien upon hotel property for his labor and materials, expended, under contract with the owner, in adorning and improving the property; by grading and graveling the grounds and walks, and by setting out flowers, shrubs and trees, etc. The decision rested on the fact that the lien law was limited in its wording to such improvements as building, installation of machinery, etc.

Law Limited in Wording

The court said:

"The complainants 'improved' the property by putting on it flowers, shrubs, trees and by grading and probably graveling the grounds and walks, but they made no erections, structures, buildings, fixtures or machinery, unless the rustic bridge may be classed as such, and there is nothing to show how or out of what it was constructed, and it was plainly but a part of the grading and finishing of the walks and drives, and an item of but little importance . . . If we should hold that a mechanic's lien exists for such work as this and such material and such improvements, we must also hold as a logical sequence that the dealer who furnishes the fertilizer to improve the ground also has a lien and that the laborer who undertakes to do clearing, ditching and grubbing has a lien. Indeed, we can draw the line nowhere if it would include anyone who does any labor or furnishes any materials to permanently improve the land at any time. We think the statute refers to erections, structures, fixtures, machinery and buildings—things constructed upon the land—and not to the enriching of the soil and beautifying the grounds by planting flowers, shrubs and trees on it."

It will be understood that the Tennessee court was not criticizing the policy of giving a lien for landscape gardening, etc., but merely interpreting the provisions of the lien law. And it is probable that it is in



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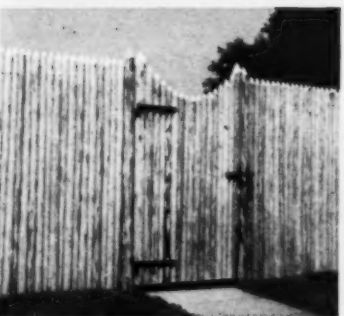
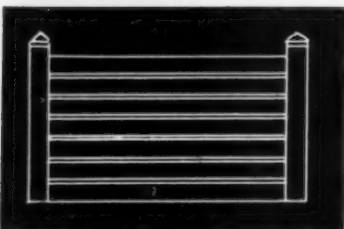
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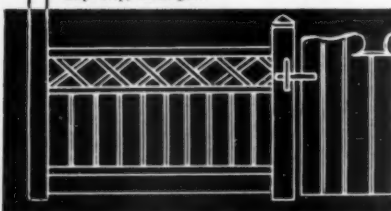
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response to such decisions that some state legislatures have broadened the provisions of their lien laws.

In the case of California Portland Cement Co. vs. Wentworth Co., 16 California appellate reports, 692, the statute under consideration provided that anyone who should, at the request of the owner, grade, fill or otherwise improve a lot, etc., should have a lien for work done and materials furnished. The court decided that this allowed a lien for grading hotel premises and for furnishing trees, shrubs, plants, flowers, seeds, bulbs, etc., in improving the premises.

Planting an Improvement

The California District Court of Appeal said:

"The furnishing and planting of seeds, trees and shrubs, and the caring for the same for such a period of time as would insure that the seeds had become well started and that the plants and trees were thoroughly settled in the ground, would seem to be an improvement to the real estate which was among those intended to be included in the provisions of the lien law. It is probably not true that under the terms of this section, a gardener or tiller of the soil could claim a lien by reason of labor expended in the general care of trees and crops, but under the contract made by Chisholm it appears that he was only to plant the seeds, trees, flowers, shrubs, etc., and to see that they were well started after being placed in the ground. . . . We think that the court properly allowed a lien for the amount hereinbefore mentioned."

Vineyard Planting Lien

In the later case of Grom vs. Center, 26 California appellate court reports, 198, the same court ruled that a lien could be enforced for planting a vineyard. After referring to an Alabama case (Donehoo vs. Johnson, 113 Alabama reports, 126), holding that planting of an apple orchard was such "permanent improvement" of land as would support a lien claim, and other judicial authorities, the California court said:

"We can see no ground for holding that the planting of a vineyard is any less an improvement to the land than the planting of lawns and shrubbery or of an apple orchard or of clover and meadow grass or the breaking and reducing of wild lands to cultivation. The planting of a vineyard is generally supposed to be not only an important and valuable improvement to the land but one of a lasting and somewhat perma-

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14 ins.	6	39 lbs.	3.00	18.00
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10 1/2 ins.	6 1/2 ins.	102.00	117.00	127.00
10 ins.	9 ins.	112.00	127.00	140.00
11 ins.	7 ins.	105.00	120.00	140.00
12 ins.	7 ins.	110.00	130.00	147.00
12 ins.	9 ins.	132.00	147.00	195.00
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ment nature. It is assuredly supposed to enhance the value of the land, and the vines become a vital part of the realty.

"It is true that the appellant did not furnish the vines, but the statute makes no distinction between the one who furnishes the material and him who performs the labor in effectuating the improvement. The lien is granted for the work done and materials furnished." A. S.

TAXATION OF PLANTS

Rose plants cultivated by a California nursery for one or two years before being sold were taxable and not exempt as being growing crops within the meaning of a California constitutional exemption of "growing crops." So decided the California district court of appeal, third district, in the case of Jackson & Perkins Co. of California vs. Stanislaus county board of supervisors, 335 Pac. 2d 976.

The court thus summarized the essential facts of the case: "It"—the nursery company—"has approximately 10,000 acres of land in cultivation in various states. In its nurseries it principally raises and sells all types of products produced and sold by such a business, including rose plants. For the latter purpose it



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No. 23 ST—With stationary blade, 4-in. walnut handle.

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No. 1E—For light pruning, also for grafting, 4-in. Comes also with 4 1/4-in. handle, in general a little heavier.



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Growing Procedure

"Its president, Clarence Perkins, testified as follows: 'Although it is possible to plant rosebushes from seeds, that method is followed only for a few varieties because generally roses do not come true from seeds. It is necessary to adopt the method of budding on wild stocks, and this method has been common for at least 50 years. The nurseryman intending to raise roses first prepares the ground after testing the soil for fertility content. The ground must be leveled for irrigation, must be subsoiled and pre-irrigated. It is then furrowed and planted to cuttings taken from wild stock.

"The cutting is first de-eyed by removing the bottom eyes to keep the cutting from throwing out wild shoots. The cuttings are about eight inches in length, are planted in rows four feet apart and are placed five to eight inches apart in the row. This work is completed in the fall. During the winter the land is kept weeded. In the spring and through the summer the cuttings are budded to the specific types of roses desired.

"It takes from one to two years to complete the plants to the point where they are salable. Plants intended for greenhouse culture to produce cut flowers are matured in about a year. Those intended for open air planting are ready in two years. If the plants stay in the ground longer they become commercially valueless. The plants require constant care up to harvest.

"When land has been used to produce rose plants and the plants have been taken off, another crop is put in the land to fertilize the soil before it is again used for roses. During culture the plants are subject to many hazards, such as spring winds that dry cuttings, frost, excessive rain, drought, adverse soil conditions, nematodes, wilt, crown gall and the like."

Plants, Not Produce, Sought

"Appellant's experience in one year showed that out of two and one-half million plants about one-half million were lost during the growing season. Nurserymen plant, cultivate and propagate plants for sale rather than seeking profit from the product of the plants. Harvesting is done with a machine called a digger that is hooked on the back of a tractor. It has a large U-shaped blade that goes into the ground about two and one-half feet. It has a lifter on the blade which lifts the plants and soil up as the machine

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runs and from there they are pulled out of the soil by hand. The plants are then bundled and sold. They are dormant when harvested."

After referring to several court decisions, the opinion continues:

"Other cases recognizing that nursery stock has the characteristics of personal property are Asato vs. Emirzian, 177 Cal. 493, 171 P. 90, and Kirkman Nurseries vs. Sargent, 42 Cal. App. 290, 183 P. 591. In Miethke vs. Pierce county, 1933, 173 Wash. 381, 23 P. 2d 405, 408, where a nursery company brought suit to recover taxes paid on nursery stock, claiming that the nursery stock was a 'growing crop,' the court held that nursery stock did not come within a statutory exemption excluding 'crops.' The Washington court was concerned with trees being produced in a nursery for transplanting which would mature for that purpose in differing periods of time extending from two years to 13 years.

"Crop" Interpretation

"The court discussed the meaning of the word 'crop' much as did the Supreme Court in Cottle vs. Spitzer, supra, as including only those crops which require an annual planting or sowing or an annual harvesting. After stating the well-settled rule that statutes exempting persons or property from taxation are to be strictly construed and that exemptions are not to be extended by judicial construction to property other than that designated by the law, the court said:

"... There is no reason why the stock of nurserymen, growing or otherwise, should not be listed and assessed as merchandise the same as the stocks of merchants which are assessed annually, as well as the lands on which situated. The legislature had the undoubted right and power to define nursery stocks as merchandise and to exempt growing crops on cultivated lands."

"The court in the Miethke case rejected the argument that to exempt growing crops and to tax nursery stock resulted in discrimination and lack of uniformity, saying:

"... All annual growing crops on real estate are exempted by the law before us, and all nursery stocks are taxed. Uniformity and equality exist in those classes, and what was to be taxed and what to be exempted were purely a matter of legislative policy."

"We conclude that the rose plants were, for taxation purposes, not growing crops, but were to be taxed as falling without the exemption."

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BOOK REVIEWS

GARDEN ENCYCLOPEDIA

The "Wise Garden Encyclopedia," out of print for the past several years, has been reissued by William H. Wise & Co., Inc., New York, with 1,380 pages of information for home gardeners, including a new 32-page supplement for the beginner.

In its more than 10,000 articles, all in simple alphabetical arrangement for easy reference, appear not only descriptions and brief cultural notes for plant genera, species and varieties, but also pertinent facts on a wide range of related subjects, such as soils, pests and diseases, garden implements and aids, garden design and construction and planting and maintenance methods. Nurserymen may therefore find the book useful as an aid in answering customers' questions or—those who provide such services—as an item for their book or library sections.

Priced at \$7.50, the encyclopedia was written by a group of American horticultural experts for all sections of the United States and edited by E. L. D. Seymour. The number of color plates in the new issue has been increased to 64, exclusive of 1500 or more line drawings and photographic reproductions that illustrate material throughout the text.

OUTDOOR LIVING PLANS

An easy-to-follow handbook for the homeowner who wishes either to build from the beginning or embellish an existing outdoor living room by his own craftsmanship is a new release from the Popular Mechanics Press. Titled "Outdoor Living Rooms," this copiously illustrated work by Earl W. Gage provides the builder-reader in any location with many suggestions to meet his requirements. In hard covers, the 160-page volume sells for \$2.95.

The first of the seven chapters that comprise the text is headed "Planning" and surveys such preliminary steps as determining site problems and opportunities and the chief construction projects. Chapter 2, "Landscaping," covers such essentials as setting use areas, planting to frame the house, plant selection, lawn development, installing sprinkler systems and slope treatments. The following chapter, "Floors," discusses both wood and masonry effects, treating walks and steps along

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with patios. Redwood, concrete, slate, tile and crushed gravel are materials on which comments appear.

Fireplaces, picnic areas, portable cooking units and recipes that add variety to outdoor fare make a section on "Cooking," while another chapter, "Fences," cites the variations possible in creating windbreaks and screens. Wood and masonry, corrugated glass and pegboard are among the fence materials described, accompanied by ample instructions for handling procedure.

A chapter on "Lighting" points out the value of illuminating equipment in adding hours of use to the outdoor area. Major spots to be lighted are told, various types of equipment are illustrated and dia-

grams of installation circuits are accompanied by tables of outlet, wire size and wattage requirements. Complete details for making several items of practical furniture for the outdoor living room form the final chapter.

PLANT PROPAGATION

The latest book on plant propagation is notable not only for its inclusive character, but also for its manner of presentation. "Plant propagation: Principles and Practices," by Hudson T. Hartmann and Dale E. Kester, both assistant professors of pomology at the University of California at Davis, is described as encyclopedic in character, and it covers all types of plants in present

cultivation—ornamentals, fruits and nuts. Published by Prentice-Hall, Inc., at \$8.75, this book of 559 pages is well illustrated by about 200 photographic reproductions and many line drawings.

The book is designed for use by those interested in the scientific approach and theory of propagation methods and also by those who are primarily interested in the techniques of the actual operations themselves.

After an opening introductory chapter and one devoted to structures, media, soil mixtures and containers, the book covers in Part I the sexual propagation of plants. Its opening chapter on the development of fruits and nuts follows the production of the flower and its de-

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velopment into the mature seed. After a chapter on the principles of seed selection, a chapter follows on the techniques of seed production and handling. Similarly the chapter on principles of seed propagation is followed by a chapter on the techniques of seed propagation, including testing, pregermination treatments, germination and disease control and seedling production indoors and in the nursery.

In Part III, asexual propagation is covered in the same fashion, the general aspects of the subject and the physiological basis of propagation by cuttings being followed by a chapter on techniques. Grafting and budding, layering and propagation by specialized stems and roots complete this part of the book.

Part IV covers in detail the propagation methods and rootstocks for the important fruit and nut species in cultivation. Similarly the propagation of the principal ornamental trees, shrubs and woody vines is covered. In tabular fashion, selected annuals and herbaceous perennials used as ornamentals are listed, with the propagation methods indicated. Concluding the book is a detailed index, covering 13 pages, adding to the reference value of this up-to-date and inclusive work.

"SWIMMING POOLS"

Because swimming pools are no longer exclusive to wealthy homeowners and now can be enjoyed by those of more moderate means, the new Sunset book published by the Lane Publishing Co., "Swimming Pools," should be of interest to many. This 112-page handbook in paperback form sells for \$1.95 and in a library edition for \$3.50.

For those planning to build swimming pools, ideas are given for design, landscaping and construction. Care of a pool, ideas for entertaining around it and various poolside structures are discussed for those who already are pool owners.

Chapters in the handbook cover such topics as the proper site, size and shape of a pool; the filter system; heating the pool; multifamily pools; enclosed pools; safety around the pool, and repairs and refinishing. Another chapter advises the proper insurance for pool owners and suggests rules for those swimming. A detailed section on pool construction discusses soil problems and excavating and lists materials used in construction.

Illustrations depicting many different types of pools, pool accessories and construction materials;

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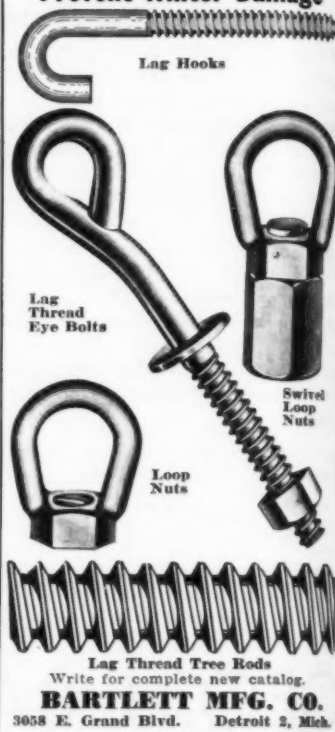
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scale plans of the pools illustrated: charts, and drawings of equipment accompany the text.

NEW ARBORETUM LIST

An up-to-date and well-printed list of horticultural points of special interest forms the content of a 69-page booklet, *The Arboretums and Botanical Gardens of North America*, compiled by Donald Wyman, of the Arnold Arboretum, Jamaica Plain, Mass. This illustrated publication, a revision of a 1947 edition, was issued recently by and is available from the Arnold Arboretum for \$1.50.

Descriptions of some 109 arboreturns and gardens in the publication include such information on each as the size, the chief functions, the special features, ownership, admission requirements and library or publication facilities. In addition to points in the United States, six in Canada, two in Cuba and one in Mexico are covered.

Included also in the booklet is a map showing both the arboretum locations and the country's hardiness zones. A supplementary list of arboretums not mentioned in the first part and the reasons for their exclusion there occupy two pages preceding a general index of establishments named.

ALABAMA CONVENTION

[Continued from page 23]

actly what one should do—turn the lemons of one's business into profitable lemonade.

Some merchandising considerations to try are: A good, inviting store layout; prominent displays that make shopping easy; a good selection of plant stock, gifts, garden supplies, etc.; limiting the number of brands handled to one or two; running sales on timely items, year in and year out, so promoted that people look forward to the event each year; staging merchandising promotions such as truckload sales, garden clinics, soil clinics, sick plant clinics, insecticide clinics, flower shows and prize offers.

Research Reports

Next on the program was Henry Orr, associate professor of horticulture, A. P. I. He talked about the work of the research and education committee appointed last year during the Alabama nurserymen's convention at Tuscaloosa. The committee met during the year and discussed the varied possibilities of disseminating information to the nurserymen on results of studies conducted by the ornamental horticulture



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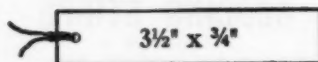
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Experiments are now being con-
ducted at Auburn on the use of light
on dogwoods and hollies, foliar feed-
ing of plants, types of containers,
shade houses, mineral deficiencies of
plants, garden chrysanthemums,
greenhouse automation and market-
ing of plants.

After lunch, the group visited the
ornamental horticulture field station
at Spring Hill, where Dr. E. V.
Smith, dean of the school of agricul-
ture and head of the agricultural
experiment station, gave highlights
of the work of the department.

Dr. Ray Self, pathologist in charge
of the Spring Hill field station, told
of fertility studies with container-
grown stock, control of soil-borne
diseases, foliar diseases, plastic green-
houses and ground heating with low-
voltage wiring and hot water pipes.

Dr. Dennis Rouse, head of the
soil testing laboratory at Auburn,
explained the value of having soil
tests made prior to applying fertil-
izer, telling how some nutrients are
available at a certain pH where oth-
ers are not.

Walter H. Grimes, extension sur-
vey entomologist for the state of
Alabama, described the damage now
being done by insect pests of turf
grass and ornamental plantings in
the state. Fortunately, only a few
pests cause enough damage to war-
rant a rigid control program. He
said that it is necessary not only to
recognize the pests, but to be ac-
quainted with factors concerning
their occurrence and with control
measures.

Since most of the insect damage
occurs during the spring and sum-
mer months, it is important that
plants be inspected frequently so
that proper control measures can
be initiated before heavy infestations
occur. Also, since effects of other
factors, such as injury by diseases,
adverse weather conditions and im-
proper fertilization, are often con-
fused with insect damage, one must
be able to distinguish such damage
from that caused by insects. Nurs-
eries in the Mobile area were then
visited by the nurserymen.

Monday evening, everyone en-
joyed the social hour, banquet and
dance held in the ballroom of the
Admiral Semmes hotel.

A. A. N. Breakfast

Tuesday morning, June 9, found
many of the nurserymen attending
the breakfast of the Alabama chap-
ter, American Association of Nurs-
erymen, in the coffee shop of the
hotel.

Tom Dodd, Jr., the group's secre-
tary, read the minutes, and the meet-



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- Plus
- Bureau of Standards chart gives equivalents and abbreviations.
- Ruler—6-in. and 1/4-in. ruler.



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A nursery and landscaping slide-rule computer that does all your calculations in seconds. This computer has been designed for the nursery and landscaping industry by a nursery and landscaping firm which knows of the need for a method of quick and precise calibration for topsoil requirements and ball-size weights. Convenient size (1 1/2 x 6 1/4 in.) makes it easy to fit into any pocket for immediate use. This computer is made of the finest pure white vinyl, so as to last for many years under vigorous and continuous use. Each computer is shipped in a jacket with easy operating instructions on both the jacket and computer.

Each	Each per 1000	Each per 2500	Each per 5000
\$2.35	\$2.05	\$1.45	\$1.15

Price includes up to 3 lines of advertising copy on back of the computer in quantities of 1000 or more. All orders which do not require advertising copy will be shipped with equivalents and abbreviations from U. S. Bureau of Standards printed on back.

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Delivery: 4 to 6 weeks in quantities of 1000 or more. 1 week for smaller orders.

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ing began with a short talk by the president, Howard Sparkman, Alabama Nursery & Landscape Co., Chase. Delegates to the A. A. N. convention were elected, Marvin Barton and Clarence Welch being selected to represent the group, with Mrs. Earlean R. McLendon, Earlean's Nursery, Birmingham, and Henry Homer Chase as alternates.

A report was then given by the nominating committee and the following nurserymen were approved by the group to serve as officers for the coming year: Marcus Byers, president; James Stephens, Semmes Nurseries, Semmes, vice-president, and Tom Dodd, Jr., secretary-treasurer.

John Fraser III spoke on the A. A. N. management conferences, one to be held near Raquette Lake, N. Y., August 30 to September 5, and another at the University of Georgia, Athens, August 9 to 15. He also talked on "What Is Happening in the A. A. N.," and upon the conclusion of these comments the group adjourned.

Pest Control Data

The second general meeting of the Alabama Nurserymen's Association began at 9:30 Tuesday morning with Marcus Byers officiating. He introduced Dr. W. L. Popham, assistant

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	CARTON	CASE	PLAIN	PAINTED
4 x 1/2 ins.	1000	5M/cs.	\$2.42	\$3.10
5 x 1/2 ins.	1000	5M/cs.	2.68	3.42
6 x 1/2 ins.	1000	5M/cs.	2.93	3.78
8 x 1/2 ins.	500	5M/cs.	4.50	5.58
10 x 1/2 ins.	500	*	5.70	6.90
12 x 1/2 ins.	500	*	6.70	8.30

GARDEN LABELS

8 x 7/8 ins.	250	*	\$7.15	\$8.15
10 x 7/8 ins.	250	*	8.15	9.30
12 x 1 1/8 ins.	100	*	13.46	15.50

*No case quantity. Order by carton quantities.

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3 1/2 x 1/2 ins.	1000	5M/cs.	\$3.15	\$3.91
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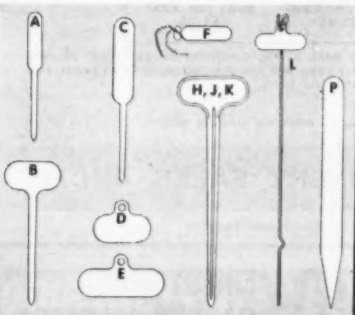
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- J—3" x 12" Tee Stake
- K—4½" x 18" Tee Stake
- L—18" Galvanized Spring Steel Stake with an E Tag
- P—1" x 12" Vertical Stake

Style	Quantity Bulk Prices per 1 M F.O.B., Milford, Michigan		
	1 M	5 M	10 M
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D	12.00	11.25	10.50
E	14.50	13.50	12.75
F	6.75	6.00	5.50
H	28.00	27.00	26.00
J	50.00	48.00	46.00
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L	45.00	44.00	43.00
P	34.00	31.00	29.00

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administrator, agriculture research service, regulator program, United States Department of Agriculture, Washington, D. C.; and C. C. Fancher, agriculture research service, plant pest control division, southern region, U. S. D. A., Gulfport, Miss. Mr. Fancher described how the nurserymen had encountered many problems associated with the state and federal quarantines in continuing to move their stock. U. S. D. A. inspectors had checked hundreds of localities in Texas, Tennessee, Arkansas, Missouri, Kentucky, Virginia and elsewhere to which the Alabama nurserymen had moved plants during the past several years and had found no evidence of the white-fringed beetle. This, he said, demonstrates how a quarantine can be effective when cooperation is received. Before discussing further the pest problems with which the U. S. D. A. is concerned, he stated that the southern plant pest control region, which is a segment of the plant pest control division of the U. S. D. A., is responsible for leadership in the cooperative control of some 17 pests. The successful control of all of these pests is dependent in part or in whole on the use of pesticides, whether insecticides, herbicides or fumigants. The insecticides that the U. S. D. A. employs in its work are applied under the supervision of federal and state employees, adhering to the safeguards that have been determined to be necessary. Regardless of what has been or may be written, these programs will continue as long as Congress and the state legislatures believe in their value, which, of course, is predicated on their benefit to the people of a given area.

The U. S. D. A. is not making a wholesale drive in treating for the imported fire ant and the white-fringed beetle, as many news articles incorrectly claim. Treatment for these pests is on a block basis and affects only a small percentage of the total land area in any given county.

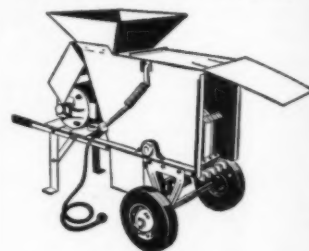
It is estimated that insect damage annually amounts to \$4 billion. It is easy to forget that man's greatest enemy in occupying the world is the insect. Mr. Fancher then showed some interesting slides on pests in other areas of the country, including witchweed, the soybean cyst nematode, the pink bollworm and the Khapra beetle.

Reports

President Byers then asked for the secretary's report, and this was given by Henry Orr. Committee reports followed: Finance, by Dwight

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Ponder, chairman, assisted by C. E. McCreight, McCreight Nursery, Goodwater; Gene Strain, Strain & Sons Nursery, Athens, and Henry Orr, membership, by Tom Dodd, Jr., chairman, assisted by Fletcher Ponder and John Ware; legislative, by John Fraser III, chairman, assisted by Holly Mitchell, Holly Mitchell Landscape Service, Auburn, and Greg Smith; roadside development, by Joe Abercrombie, King's Nursery, Auburn, chairman, assisted by Charles Clemons, Montgomery, state landscape architect; Mrs. Earlean McLendon, George Sawada, Henry Homer Chase, and Fletcher Ponder, Tallapoosa County Nurseries; service and publicity, by Frank Ponder, B. F. Ponder Nursery, Lanett, chairman, assisted by John Pace III, Pace Nursery, Mobile, and E. F. DuBose; arrangements and program, by Elwood Stephens, chairman, assisted by Clarence Welch, Welch Bros. Nursery, Inc., Wilmer; Arnell Blackwell, Blackwell Nurseries, Inc., Semmes; Sidney Meadows and Tom Sawada, and research, by C. J. Hayden, Athens Nursery Co., Athens, chairman, assisted by William Barton.

Special committees appointed on Monday also gave reports at this time. Tom Dodd, Jr., for the auditing committee, declared accounts in order.

Henry Homer Chase presented three resolutions. One consisted of thanking the Mobile nurserymen for making this one of the finest conventions. The second was an appeal to the state legislature for more support to the ornamental horticulture field station at Spring Hill. The third concerned changing the state flower from the goldenrod to the camellia. All three of the resolutions were endorsed by the members. John Fraser, Jr., gave the necrology report.

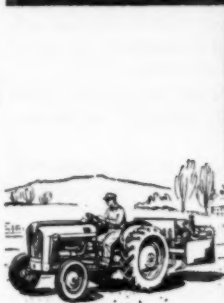
T. D. Johnston, chairman of the time and place committee, asked that the 1960 meeting of the Alabama Nurserymen's Association be held at Montgomery sometime after June 1, in order that the children of the nurserymen might attend the convention with their parents.

The nominating committee's report, given by John Fraser III, was accepted as printed earlier.

At this time, Lloyd Abbot, Abbot's Sunny Knoll Nursery, Mobile, addressed the group and proposed a resolution (which was passed) that proper recognition be made of the research work and workers of Auburn concerned with the imported fire ant.

Following was an enlightening

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Two pieces of equipment instead of seven. Result: lower investment and a terrific saving in time of changing from one attachment to another. That's the capsule story of the new Sherman line of soilworking tools. The Sherman Landscrapper and the Sherman-Gill Multi-Purpose Tool revolutionize landscaping.

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Plant seedlings on rough land: Steep, stony, brushy, heavy sods, at 10 times the hand rate and with better survival.

Two models: Standard at \$365 and the M-55 at \$245 for easier sites.

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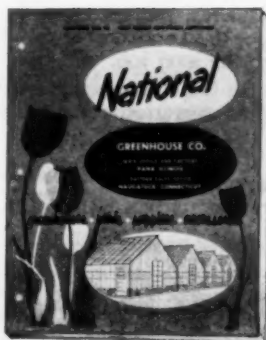
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talk by Dr. Harry Amling, of the horticulture department at Auburn. Dr. Amling talked on "Herbicides in the Nursery Operation" and explained that controlling weeds chemically in any given area is dependent upon the prevailing weed species, soil type, soil moisture, soil temperature, drainage control, maintenance of areas surrounding the treated area and the crop species to be grown in the area. Whether the chemical used is a soil fumigant, residual pre-emergence (applied after plants are set out or cultivated to control annual weeds as the seeds germinate), or postemergence (applied to weeds growing with the crop), failure to follow instructions to the letter can lead to complete failure of the material to function in weed control or cause crop injury.

Mr. Amling stated that Novon is the only chemical found so far which is not mobile in the soil or leached from the soil in drainage water and returned to a pond or carried down a ditch to kill plants in an adjacent field. It can be applied to areas intended for container-grown stock to eliminate all weeds and weed seeds present and will inhibit weed growth for about a year. Containers may be placed on the treated area approximately one month after application of the chemical. This treatment will practically eliminate nut grass and all annual and perennial weeds except dock.

The American Association of Nurserymen film, "Basic Technique for Home Landscaping," was then shown, after which Walter Miller, Dow Chemical Co., Midland, Mich., read a paper on "Nursery Fumigation Practices." Plant parasitic nematodes cause considerable damage to nursery crops in the southeastern states. Some of the plants that are severely affected are boxwoods, gardenias, ligustrums, azaleas and hollies. Root-feeding nematodes often cause poor growth, low vigor, yellowing or burning of the foliage, stem die-back and, in some cases, death of plants. Not only do nematodes stop growth by feeding on plants, but also make them subject to invasion by fungi and bacteria that are present in the soil. Cultural practices, such as crop rotation, the planting of resistant varieties and row applications of fumigants, are generally not applicable to nursery crops. Some nurserymen have already taken steps to insure the production of nematode-free plants.

J. L. Carnes, Virginia-Carolina Chemical Corp., Richmond, Va.,



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2 cases 24/4 oz. **ATLAS FISH
EMULSION FERTILIZER** — \$11.24
\$5.62 case
1 case 12 pints **ATLAS FISH
EMULSION FERTILIZER** — 7.80
\$7.80 case
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Keeps them green and healthy looking,
brings them to a more profitable size
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speaking on "Nemacides, and Phos-
phon, a Growth Retardant," then gave
the main advantages of using a re-
tardant and showed some slides indi-
cating how this chemical had af-
fected the growth of Easter lilies and
chrysanthemums.

Marcus Byers made several an-
nouncements to the group, and then
the meeting was adjourned.

PURCHASED recently by Albert
G. Ernest and Emil Fournier, opera-
tors of Fournier Landscaping & Gar-
dens Service, East Hartford, Conn.,
were Curley's Greenhouse & Nurs-
ery, East Hartford. Both businesses
will be conducted at the location of
the latter-named firm, 144 East
Main street, East Hartford.

CELEBRATED recently was the
grand opening of Kitano's Atlantic
Nursery, Long Beach, Calif., at the
firm's new location, 15600 Atlantic
avenue. The new site, across the
street from the former location, has
more space and parking facilities.

O. O. LEE recently opened a self-
service retail nursery operation, the
Shady Lane Nursery, at Clearwater,
Fla.

STARTING Watnong Nursery at
Morris Plains, N. J., is Donald P.
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5 to 10 Times Faster Than Ordinary Spreaders

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VITALIZED BY SCIENCE
... Sterling Forest Peat is scientifically prepared and cured so that its chemical and physical properties ASSURE SUPERIOR BENEFITS TO YOUR SOIL AND PLANTS.

- Sterling Forest Peat conditions the soil.
- It improves aeration of the soil.
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NEW BULLETINS

ROSE PACKING METHOD

A new bulk packaging method designed to reduce the marketing costs of rosebushes was recently reported by the United States Department of Agriculture and is described in a recent news letter of the American Association of Nurserymen.

The U. S. D. A. report claims marketing costs for 1-year-old, bare-root rose plants can be reduced if the plants are packaged before storage in cartons fitted with polyethylene-coated kraft paper liners. The packaging study was made over a period of four storage seasons with 1-year rosebushes grown in California. Normally the roses were held under refrigeration three to five months before being marketed to midwestern and eastern growers producing roses under glass.

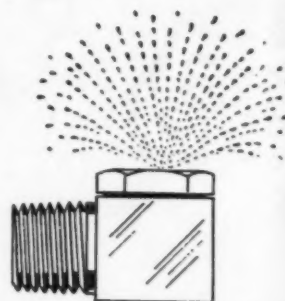
It was found that cartons with the special liners cost about one third less than conventional crates lined with waxed paper and packed with sphagnum moss and excelsior. Less labor is required to prepare the cartons and liners for use, and the weight of the packages is reduced by 20 per cent. Plants packaged in the polyethylene liners were in good market condition after storage.

Captan was found to be the best of several fungicides tested for reducing decay in storage. A free copy of this 32-page report, Packaging and Storing Bare-Root Rose Bushes (market research report No. 308), may be obtained from the office of information, United States Department of Agriculture, Washington 25, D. C.

PINE AND LOCUST PESTS

Two pests of ornamentals—the midge that causes pod gall of honey locust and the red pine scale—are discussed in circulars 206 and 207, respectively, of the Connecticut agricultural experiment station, New Haven. In the first of these, Pod Gall of Honey Locust, John C. Schread notes that the widely distributed pod gall midge, though it is not fatal to its host, threatens to interfere with nursery production of popular honey locust varieties because of the unsightly leaf deformation it produces. Life cycles of the midge and results of control experiments are given in the brief 4-page circular.

Charles C. Doan, author of circular 207, the Red Pine Scale, states that cold temperatures common through most of the natural range of



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12 nozzles, postpaid	11.00
100 nozzles, postpaid	80.00
Tork 24-hour on/off clock	10.95
Tork cycling clock, 1-minute or 30-second adjustment	23.95
Solenoid valve, 110v 3/8-in.	23.00

Also strainers, larger valves and other types of nozzles. Booklet upon request, showing many uses for fog.

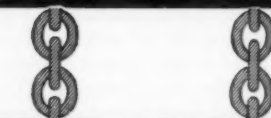
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**PETERS
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red pine (*Pinus resinosa*) may be sufficient to restrict the northward spread of the red pine scale, which is now confined to parts of Connecticut and New York at the southern edge of the tree's range. The illustrated 7-page booklet describes injury caused by the pest, as well as its habits and life cycle, and suggests control measures for use in forest and ornamental plantings.

DWARF FRUIT TREE DATA

Types of dwarfing rootstocks and other methods of dwarfing fruit trees are described in bulletin No. 783 recently released by Cornell University's New York state experiment station, Geneva, and now available upon request.

Authored by K. D. Brase and R. D. Way, the generously illustrated, 50-page booklet is entitled *Rootstocks and Methods for Dwarfing Fruit Trees* and was published with the financial assistance of the American Association of Nurserymen.

The publication is based on experimentation and observation of nursery practices here and abroad in the production of dwarf trees. Apples, cherries, peaches, pears and plums are dealt with. Steps leading to the standardization of clonal apple rootstocks are presented, and certain recommended clonal apple rootstocks having dwarfing and semidwarfing tendencies are discussed in detail.

Propagation techniques that can bring about dwarfing effects, as well as methods that help to control incompatibility factors, are described, and in one or two instances cultural and spacing recommendations are given for orchard plantings.

SHADE TREE PROPAGATION

[Continued from page 26]

acid just long enough for most of the tough seed coat to be removed so air and water can penetrate, but not so long that the acid penetrates the embryo and kills it. At the present time, this technique is used only on an experimental basis with the above genera.

Softwood Cuttings

Polyethylene plastic is also used extensively in the propagation of certain trees from softwood cuttings. Its use has facilitated the propagation of many trees that were previously thought impractical, if not impossible, to root. The following are some of the plants that were propagated in this manner: *Stewartia koreana*, *Stewartia pseudocamellia*,

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Tilia japonica, *Sorbus alnifolia* and *Ulmus Moline*.

Soft, immature cutting material was collected in the early spring (mid-May to mid-June). This material was brought into the greenhouses and made up into tip cuttings measuring two to three inches in length. They were treated with the commercial rooting hormone, Hormodin No. 3. Other hormone concentrations were used on a comparative basis, but none of them gave the rooting results that were obtained with Hormodin No. 3. Once treated, the cuttings were inserted into a medium of sand and watered in thoroughly. The medium was not pounded down around the cuttings. Sand was the only medium used in propagating these deciduous trees.

After the cuttings were watered in, a light wire frame of turkey wire was placed over the cuttings, and a sheet of polyethylene plastic was, in turn, laid over the wire frame. The sheet of plastic should be of sufficient size to cover the wire frame completely. Once the cuttings were covered, the unique properties of the plastic, its permeability to air and its impermeability to water vapor, prevented the soft, succulent cuttings from wilting.

Method Not Perfect

This method, however, is far from perfect, even though it gives good results. The biggest disadvantage encountered in the use of polyethylene plastic for the rooting of softwood cuttings is that the plastic traps heat, a condition that must be constantly watched in this type of propagation. Many times the temperature of the rooting medium will rise to 95 to 105 degrees F. with no visible harm. However, this temperature is considered too high and additional shading is applied when necessary to keep it lower.

The propagating houses at the Arnold Arboretum, Jamaica Plain, Mass., are equipped with lath shades that can be raised or lowered on the outside of the glass, depending upon the weather. These shades remain down throughout the entire summer season, cutting out approximately 40 per cent of the total light. In addition to this shade, a single layer of 53 per cent Saran cloth is spread directly over the plastic cases when the temperature outside the greenhouses rises above 95 degrees F. This second layer of shading is applied only from 12 to 5 p. m.

After the cuttings are rooted, they are lifted from the medium, potted and returned to an open bench in the greenhouse. This location, how-



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ever, has a considerably different environment from the environment under which the cuttings were rooted. The humidity is much lower, the light intensity is much higher and the temperature variation is much greater. Moved to such a location, the newly potted cuttings will wilt rapidly unless handled in the following manner: Once the cuttings are placed upon an open bench, turkey wire is placed over them and this, in turn, is covered with a sheet of polyethylene plastic. The plastic is left on for from three to 10 days, depending upon the weather. If the weather is cloudy, the plastic is removed completely within three days; however, if the weather remains hot and dry, the plastic is removed gradually over the longer period of 10 days. What is actually done is hardening off the newly potted cuttings to the greenhouse conditions.

Use Youngest Seedlings

Juvenility plays a most important part in the successful rooting of shade trees from softwood cuttings. Whenever possible, the cutting material should be collected from the youngest seedlings available. In the experimental work carried out at the Arnold Arboretum, cuttings taken from stock plants 10 years or younger rooted successfully, while

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the same type of cuttings collected from an older plant of the same kind and started in exactly the same manner, rooted poorly.

With the completion of the hardening-off operation, the potted cuttings remain on the open greenhouse bench until early fall (September). During this period many of them will make vegetative top growth, ranging in height from two or three inches, in the case of maples and dogwoods, to 10 to 15 inches, in magnolias and elms.

This is one of the greatest advantages of propagation with polyethylene plastic. These soft, immature cuttings, which are kept from wilting by the plastic, will not only root, but also will root so early in the season that they still have time to grow. This condition is responsi-

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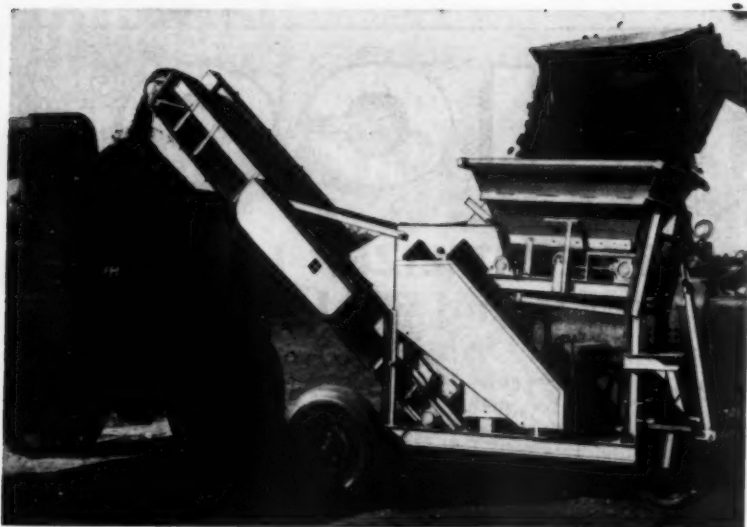
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ble to a large extent for the successful overwintering of so many of these plants. It is not just a piece of wood with a few roots attached that is being overwintered, but an actual growing plant, in some cases as large as a liner.

In the fall (September to October) the plants are moved out into coldframes, plunged in sawdust and covered with sash and lath shades



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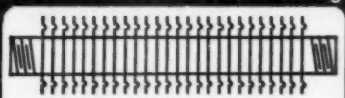
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for the winter months. After all danger of frost is over in the spring (late May), they are lined out into open nursery rows or bedded in shaded frames, depending upon the material.

Grafting

Plants that do not reproduce themselves exactly true from seeds and those which cannot be rooted from cuttings, at least on a commercial scale, cannot be propagated by either of the two techniques described. Among the plants that fall into this category are *Carpinus betulus fastigiata*, *Acer saccharum monumentale* and *Cornus florida fastigiata*.

At the Arnold Arboretum, only two kinds of grafts are used, a side graft and a whip-and-tongue graft. The former is used only in the grafting of evergreens or in the grafting of newly potted deciduous understock. However, it is never used in the grafting of deciduous plants unless it is absolutely unavoidable, and with this statement I include every deciduous plant that is propagated by grafting. It is not the kind of plant to be grafted that determines which type of graft will be used, but the condition of the understock on which the plant is to be grafted.

Whenever it is at all possible, the seedling understocks are potted one year prior to the actual grafting operation. While it is true that this operation entails considerable additional work, the results obtained more than warrant the extra effort. Before this practice of using one type of graft for newly potted seedlings and another type of graft for established stock went into effect, considerable time was spent grafting various plants in various ways, until the decision as to what type of graft to use for a specific plant became a major problem. This situation is completely eliminated, however, with the last-mentioned technique. It is the condition of the understock that determines what type of graft is used.

PENN STATE TRAINING

[Continued from page 19]

and is available as Pennsylvania agriculture experiment station bulletin 637.

The facilities for teaching and research have been improved by the acquisition of a 160-acre horticulture research farm and the allocation of funds for building additional laboratory, class and work rooms. The funds for these facilities were obtained through the efforts of the Pennsylvania Nurserymen's Association.

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He dropped in at our Booth at the Eastern Nurseryman's Convention back in January. Arrived with a grin and a greeting that was harder to take than a cancelled order.

"Wore one of those things out," he said, pointing to the Royer Shredder we had on display.

Now, no salesman can take a challenge like that laying down. I jumped to the bait.

"What was the trouble?" I asked. "Too small a machine for the amount of material?"

"No, son. Fact is, that Royer always was able to keep ahead of our operator."

"Don't tell me our welded angle-iron and steel plate frame gave you trouble!"

"Nope. Wasn't that. Hadn't anything to do with the heavy gauge steel plate hopper bolted to the frame, either."

"Have a flat?"

He shot me a disgusted look. "Son, mine didn't have those nice pneumatic tires."

He took hold of the tow bar and moved our light, compact display model. "You

folks sure designed portability into these machines, though. Makes them real easy to move to and around the work site."

"And they stay that way," I added.

"These large roller bearings are packed with grease and sealed to keep out dirt. Heavy duty, too—not little wagon wheels."

The only thing left was the belt assembly, so I asked him the obvious.

"I wore out a belt or two in my time. But it sure takes a lot of runnin' to do it. Sure wish they made shoe soles out of that tough, resilient composition belting."

"And it sure is smart to mount those tempered alloy steel teeth the way you do. Really shreds the material, and that design prevents material from impaling, too."

"You know, I never had a tooth break. That spring-loaded retarding sweep prevents a lot of headaches."

"But," I asked, "why did you have to replace belts?"

"Son, nothing lasts forever. Bought that Royer back in '24. Really didn't wear out, though. It's just so doggone old it deserves to be retired."

He started to leave, shot another glance at the display model, and added...

"Have your local distributor come by and I'll give him my order for a new Royer. It's the best machine I ever bought."

Well that was the end of one of our favorite balloons. We always thought that Royers lasted forever. Now we say they *practically never wear out*.

Oh yes, we gave him a copy of our new Bulletin S-57. In eight pages we show and describe our complete line. There's one for every size operation, every need. Drop me a line and I'll rush one off to you today.

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tion together with other horticultural interests of the state.

Campus Has Fine Specimens

The 250-acre campus of Penn State has an excellent selection of plant material with over 600 species and varieties of ornamental trees, shrubs and vines. The campus plantings are used for plant identification and regarded as examples of good design in the horticultural classes. A 6-acre nursery is maintained for student training. More than 22,500 square feet of greenhouse space is used in the teaching and research program.

Extension work in ornamental horticulture and floriculture is increasing with four full-time staff members. They work closely with the nursery and florists' industries in the growing and use of their products. Help is also given to home gardeners in floriculture and landscape design.

The following staff members are devoting full time to teaching and research in ornamental horticulture, floriculture and landscape architecture: R. P. Meahl, ornamental horticulture; Chiko Haramaki, ornamental horticulture; J. E. Brewer, ornamental horticulture; Sam Atmore, ornamental horticulture; J. W. Mastalerz, floriculture; R. B. Pfahl, floriculture.

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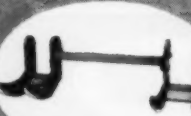
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culture; J. W. White, floriculture; D. E. Walker, plant breeding; W. H. Wilson, landscape architecture; G. E. Steyers, landscape architecture, and K. J. Polakowski, landscape architecture.

Ornamental horticulture extension workers are A. O. Rasmussen, A. J. Gianfagna, J. L. Hayden and Lynne B. Smith.

Staff members of other departments who are devoting some time to research and teaching in relation to ornamental horticulture are J. M. Duich, department of agronomy, on turf; James Tammen, department of plant pathology, on disease of ornamental plants; C. A. Becker, department of agricultural economics, on marketing ornamental plants, and C. E. Trotter, department of agricultural economics, on marketing of florists' crops.

WHO'S WHO AT CONVENTION

[Continued from page 18]

children—Zosia, 17; Sidney B. III, 14; Marina, 13, and Carl, 9. Her chief hobby is weaving.

Ladies' Auxiliary

Mrs. Betty Vick, president of the Ladies' Auxiliary of the A. A. N., was born in 1921 at Elkins Park, Pa. After graduating from high school, she worked in the Philadelphia offices of the Penn Mutual Life Insurance Co. She married Albert Vick, Vick's Wildgardens, Inc., Gladwyne, Pa., in 1940. She was secretary and bookkeeper of Vick's for six years.

The mother of four children, a son and three daughters, Mrs. Vick has been active in Cub Scout and Brownie Scout programs. Her hobbies are sewing, painting and gardening.

Greeters' Committee

Heading the greeters' committee of the 1959 convention is Hans Hess, Hess' Nurseries, Wayne, N. J., who is the current vice-president of the New Jersey Association of Nurserymen. Born in 1917 at Mount Vernon, N. Y., he has been associated with the nursery most of his life, first working for his father and later becoming a partner. Since his father's retirement in 1957, Mr. Hess has had charge of the firm's operations. He studied nursery management courses at Rutgers University and spent three and a half years in the armed services.

Mr. Hess served two years as president of the North Jersey Metropolitan Nurserymen's Association. He is a past president of the Wayne Kiwanis Club, past secretary of the

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PHILADELPHIA



Wayne township chamber of commerce and served as New Jersey district chairman of the committee on agriculture for two years. He and his wife have two daughters, Charlotte, 16, and Cornelia, 9.

Registration

An early interest in plant materials influenced the decision of Arthur B. Copenhaver, Copenhaver Nurseries, Mechanicsburg, Pa., chairman of the registration committee, to enter the horticultural field. He was born at Lebanon, Pa., in the heart of the Pennsylvania Dutch country and, after moving to Harrisburg, where he was graduated from high school, he studied ornamental horticulture at Pennsylvania State University.

In 1928, his uncle, the late C. F. Copenhaver, established the Copenhaver Nurseries, and he and his father managed the operations. After the death of his uncle in 1946, Mr. Copenhaver purchased the 40-acre nursery. Recently he acquired a 100-acre farm nearby, which he hopes to develop into a nursery for the growing of specimen plant material.

Active in trade organizations, Mr. Copenhaver served as president of the Pennsylvania Nurserymen's As-

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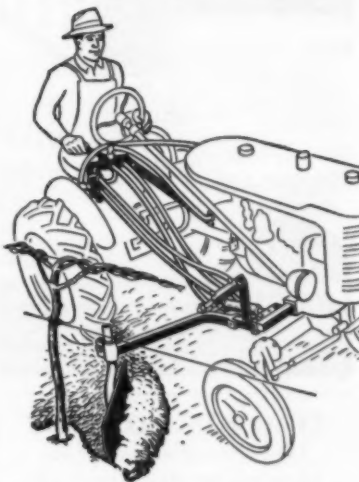
sociation in 1956 and is currently vice-president of the Pennsylvania Horticultural Council. He also is a director of the Landscape Materials Information Service.

In addition to these activities, he is a member of the West Shore Masonic Lodge and Zembo Temple, serves as president of the local school board and is a trustee of the St. John's United Church of Christ. He and his wife, Ruth, have two daughters, Judy and Jane.

Publicity

Handling the publicity for the Philadelphia convention is John F.

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(Jack) Styer, Jr., Styer's Nursery, Concordville, Pa. Born on the same farm in Delaware county, Pennsylvania, on which his grandfather had started the nursery business in 1890, Mr. Styer joined his father as co-partner in the firm when he was graduated from Pennsylvania State University with a degree in ornamental horticulture in 1949.

A member of the Pennsylvania Nurserymen's Association, he has been chairman of the Eastern Region for the past two years, is serving his second term on the executive committee and has held convention and other committee chairmanships as well. He was the P. N. A. delegate to the A. A. N. conventions at Los Angeles, Calif., in 1956, and Miami Beach, Fla., in 1957. In addition to his nursery trade activities, he is currently a member of the legislative committee of the Pennsylvania Farmers' Association and has been treasurer of the Chester County Flower Growers' Association, Chester county, Pennsylvania, for the past two years.

While he states that the nursery business is his hobby as well as his vocation, he and his wife, Betty, enjoy traveling and relaxing at their Chester county farm home as well.

Decorations

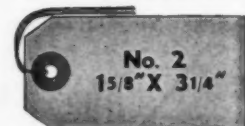
The decorations planned for this year's convention are under the supervision of C. J. (Jay) Albrecht, Jr., Albrecht Nurseries, Narberth, Pa. Born at Philadelphia in 1924, Mr. Albrecht was educated in the Lower Merion township schools and attended the Pennsylvania State University. He represents the third generation of his family to be associated in the firm and now holds the position of general manager of the nursery division.

Mr. Albrecht is a member of the executive committee of the Pennsylvania Nurserymen's Association and is currently president of the Bala Cynwyd-Narberth Rotary Club. He is a member of the American Legion and serves as a commander in the civil air patrol of the United States air force, holding the rank of major.

Entertainment

Chairman of this year's entertainment committee is Al Vick, the president and owner of Vick's Wildgardens, Inc., Gladwyne, Pa., a firm founded in 1860 at Rochester, N. Y., by Mr. Vick's great-grandfather. In 1930, the firm purchased land at Glen Moore, Pa., where the Vicks specialized in growing wild plants and developed an extensive mail-

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order business. In 1948, the property was confiscated to make way for the Pennsylvania turnpike. Since then, the firm's emphasis has been on designing and building wild gardens, naturalistic landscaping, service and maintenance. Land was purchased at Gladwyne, where heeling-in grounds, a nursery, propagating beds, greenhouses and coldframes were installed.

Mr. Vick was born at Washington, D. C., in 1916; attended Franklin and Marshall College, and joined his father's firm as job foreman in 1937. He is past president of the Pennsylvania Nurserymen's Association and member of the National Landscape Nurserymen's Association, the National Arborists' Association and the National Shade Tree Conference. He served as president of the Bala Cynwyd-Narberth Rotary Club and as vice-president of the local junior chamber of commerce.

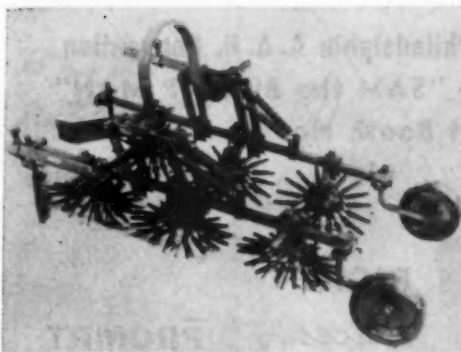
He is a member of the Chi Phi national fraternity, active in national Boy Scout work and of Quaker faith. He has served as a member of the executive committee of the Philadelphia flower show, in which exhibits made by his firm have been awarded top honors. His hobbies are fishing, painting and gardening. His wife, Betty, is president of the Ladies' Auxiliary of the A. A. N.

Juniors' Co-Chairmen

L. B. (Ben) Palmer, Rose Valley Nurseries, Inc., Media, Pa., and Mrs. Palmer share the chairmanship of the committee assigned the task of keeping the junior nurserymen entertained at the convention. Mr. Palmer was born at Swarthmore, Pa., in 1914 and attended public schools there through his first high school year. After a year-long trip to Europe he returned to finish his secondary education at the George school and to enter Pennsylvania State University, University Park.

Graduating from Penn State in 1936 with a bachelor's degree in forestry, he worked for five years as a forester with the civilian conservation corps in Clearfield county, Pennsylvania. It was during this time—in 1938—that he met and married Mrs. Palmer. In 1941 he joined the staff of Styer's Nurseries, Concordville, Pa., remaining with that company for four years before taking over the ownership and management of Rose Valley Nurseries in 1955.

A member of the American Association of Nurserymen and the Pennsylvania Nurserymen's Association, he is also active in the Dela-



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ware County Agricultural Extension Association and on the Philadelphia flower show committee. He takes part in community activities on the Media school board and in the Concordville Rotary Club and indulges his favorite hobby at the Swarthmore Tennis Club.

Mrs. Palmer was born at Altoona, Pa., and attended Juniata College, Huntington, Pa., for one year, later graduating from the Altoona school of commerce. She worked for four years as a secretary for the Penn Central Light & Power Co. before her marriage to Mr. Palmer in 1938. For the past eight years she has been assistant secretary to the president judge of the orphans' court of Delaware county.

Mrs. Palmer is a past president of the Media Junior Women's Club and takes part in Girl Scout activities at Media, where she and her husband have lived since 1941. Mr. and Mrs. Palmer have two daughters, Judy, a sophomore at Juniata College, and Mary Lou, a sophomore at Media high school.

Exhibits

Chairman of the exhibits committee for the Philadelphia convention is Thomas M. Yerkes, Conard-Pyle Co., West Grove, Pa. Mr. Yerkes entered the nursery trade in 1949, when he joined the Conard-Pyle Co. as office manager, after having worked in sales and managerial positions for several New York and Pennsylvania manufacturers. He has since been given the additional duties of corporate secretary of the Conard-Pyle Co. and is a member of the firm's board of directors.

In addition to his A. A. N. affiliation, he is currently serving a 3-year term on the executive committee of the Pennsylvania Nurserymen's Association and was recently named chairman of the arrangements committee for the 1960 P. N. A. convention. He is also a charter and executive committee member of the National Office Management Association.

Mr. Yerkes was born of Quaker parents at West Chester, Pa., in 1915. He received his elementary and high school education at West Chester and attended night classes at a business college at Wilmington, Del., while working as a factory laborer at a wage of 30 cents an hour. He married the former Jane Anne Kerr in 1940, and the couple have a 17-year-old daughter, Anne Lea, and a son, 14, Thomas K.

In his home community, Mr. Yerkes is a member of the school authority and serves as troop com-

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mittee chairman for the local Boy Scouts and as team manager for the little league. Fishing and bridge are his favored hobbies.

Transportation

Serving as chairman of the transportation committee for the Philadelphia convention is Stanley M. Leighton, Whitemarsh Nursery, Plymouth Meeting, Pa.

Born at Philadelphia in 1912, Mr. Leighton attended the public schools there and the Wharton School at the University of Pennsylvania, Philadelphia. He was a salesman for Andorra Nurseries, Inc., Conshohocken, Pa., and John Albrecht Nurseries, Narberth, Pa., before he established Whitemarsh Nursery in 1950.

Past president of the Pennsylvania Nurserymen's Association, he is presently member at large for that organization and vice-president of Eastern Regional Nurserymen's Association, Inc. He is active in community affairs as well, being past president of the Whitemarsh Civic Association, Whitemarsh, Pa., and the Whitemarsh Lions Club; director of the Whitemarsh chamber of commerce, and active in Boy Scout work.

Mr. Leighton married the former Ruth Ferber, Chestnut Hill, Pa., in 1940, and the couple have a son, Douglass, 18, who is a horticulture student at Pennsylvania State University, University Park, and a daughter, Debra, 7. Plant propagation is Mr. Leighton's major hobby.

OPENED recently at Buffalo, N. Y., was Creekside Nursery, Inc., whose officers are Raymond E. Kelley, president; William Abberger, vice-president, and Daniel J. Kelley, secretary-treasurer. The manager of the nursery is James T. Schnellinger.

RECENTLY opened by Bert Hata was Bert's Tropical Garden, 14622 Francisquito, La Puente, Calif. The nursery specializes in tropical and Oriental plants and garden ornaments and offers free landscaping consultation.

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